Provisional Revenue and Expenditure Budgets

Year Ending December 31, 1989

Greater Vancouver Districts

89-01332/

Greater Vancouver Regional District
4330 Kingsway, Burnaby, British Columbia, Canada V5H 4G8

Regional Manager
Telephone (604) 432-6214

TO: Board of Directors

FROM: Regional Manager

RE: 1989 Provisional Budget

DATE: November 23, 1988

The 1989 Provisional Budgets for the Greater Vancouver Districts are presented for your consideration. The following functions are covered in the consolidated budget overview:

- Water District
  - Water supply & distribution
- Sewerage & Drainage District
  - Sewerage & drainage
  - Solid waste
- Regional District
  - General government services
  - Air pollution control
  - Hospital planning
  - Labour relations
  - Parks
  - Development services
  - E911 Emergency Telephone System
  - Electoral Area functions
- Regional Hospital District

The Role and Objectives of each function, together with an organization chart are stated in the preamble to each function budget.

The projected 1989 expenditures for the above functions amount to $172,896,527 and are summarized on Schedule 1. $106,972,126 (62%) of this amount relates to debt charges on past and current capital expenditures, most of which have already been approved.

Total operating expenditures of $62,350,503 representing 36% of total expenditures are increased by $10,543,865 (20.4%) over 1988 budget. $7,018,738 of this increase (11.3%) is for solid waste operations and reflects the first full year operation of the Burnaby Incineration Plant. The changes from the 1988 budget for new programs, extraordinary costs, increased levels of service and inflation are summarized on Schedule 2. Details of these increases are included in the Treasurer's report at the beginning of each of the District's budgets.

Tax Supported Functions

The impact of "tax supported" functions on the 1988 tax base is as follows:

1989 tax requisitions and levy (excluding financing for members)	
Regional	$12,571,734
Regional Hospital	34,898,636
Sewerage and Drainage	33,363,682
	80,834,052
Deduct	
Hospital debt charges assumed chargeable to the City and Township of Langley	(1,576,068)
Electoral area functions	(494,573)
The City and Township of Langley's contribution to Regional and Hospital functions effective January 1, 1989	(331,352)
	78,432,059
Estimated increase in assessments due to new development (3%)	(2,347,495)
Net amount applicable to 1988 tax base	76,084,564
1988 tax requisitions and levy	74,079,688
Increase applicable to 1988 tax base	$ 2,004,876
% Increase on 1988 tax base	2.7%

The increase in tax requisitions and levy on the 1988 tax base, after considering the boundary extension and the increase in assessments for new development, amounts to $2,004,876 or 2.7%.

Taxation for Regional and Regional Hospital District purposes is relatively uniform across the region and the impact of these budgets on taxation of a typical residence assuming participation in all functions is as follows:

	ASSESSED VALUE	REGIONAL	HOSPITAL
1989(1)	150,500	17.12	49.04
1988	120,000	15.21	42.44
		1.91	6.60
Increase due to:			
Shift in taxation from non-residential		.75	2.72
Budget increase		1.16	3.88
		1.91	6.60

(1) Assessment increased by average percentage residential assessment increase in region less estimated new development.

Self-Liquidating Functions

It is recommended the 1989 water rate be set at 4.45¢ per cubic metre, up 8.8% from the 1988 rate of 4.09¢. The five-year capital expenditure program predicted a 1989 rate of 4.42¢ expressed in 1987 dollars.

The recommended 1989 regional rate for solid waste disposal is $43.50 per tonne. The 1988 rate was $34.00 per tonne. 1989 is the first full year the incinerator will be in operation, which has a significant impact on the rate.

Schedule 1

GREATER VANCOUVER DISTRICTS

1989 BUDGET

TOTAL EXPENDITURES

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Tax Supported Functions				
Regional District				
General Government	$ 2,458,856	$ 2,402,620	$ 2,529,640	+ 2.9
Air Pollution Control	2,105,900	2,004,400	2,443,000	+16.0
Hospital Planning	440,540	395,705	483,778	+ 9.8
Labour Relations	1,598,930	1,535,788	1,765,739	+10.4
Parks	5,531,823	5,541,230	5,941,595	+ 7.4
Development Services	870,000	870,000	1,149,830	+32.2
Electoral Areas	506,636	485,641	554,688	+ 9.5
E911 Emergency Telephone System			210,800	
	13,512,685	13,235,384	15,079,070	+11.6
Sewerage & Drainage	34,611,462	32,512,732	35,462,412	+ 2.5
Hospital District	63,161,184	62,445,281	72,682,181	+15.1
Total tax-supported functions	111,285,331	108,193,397	123,223,663	+10.7
Self-Liquidating Functions				
Water District	15,572,284	15,133,555	17,357,971	+11.5
Solid Waste	22,354,756	19,740,912	32,314,893	+44.6
TOTAL	$149,212,371	$143,067,864	$172,896,527	+15.9

Excludes financing for members.

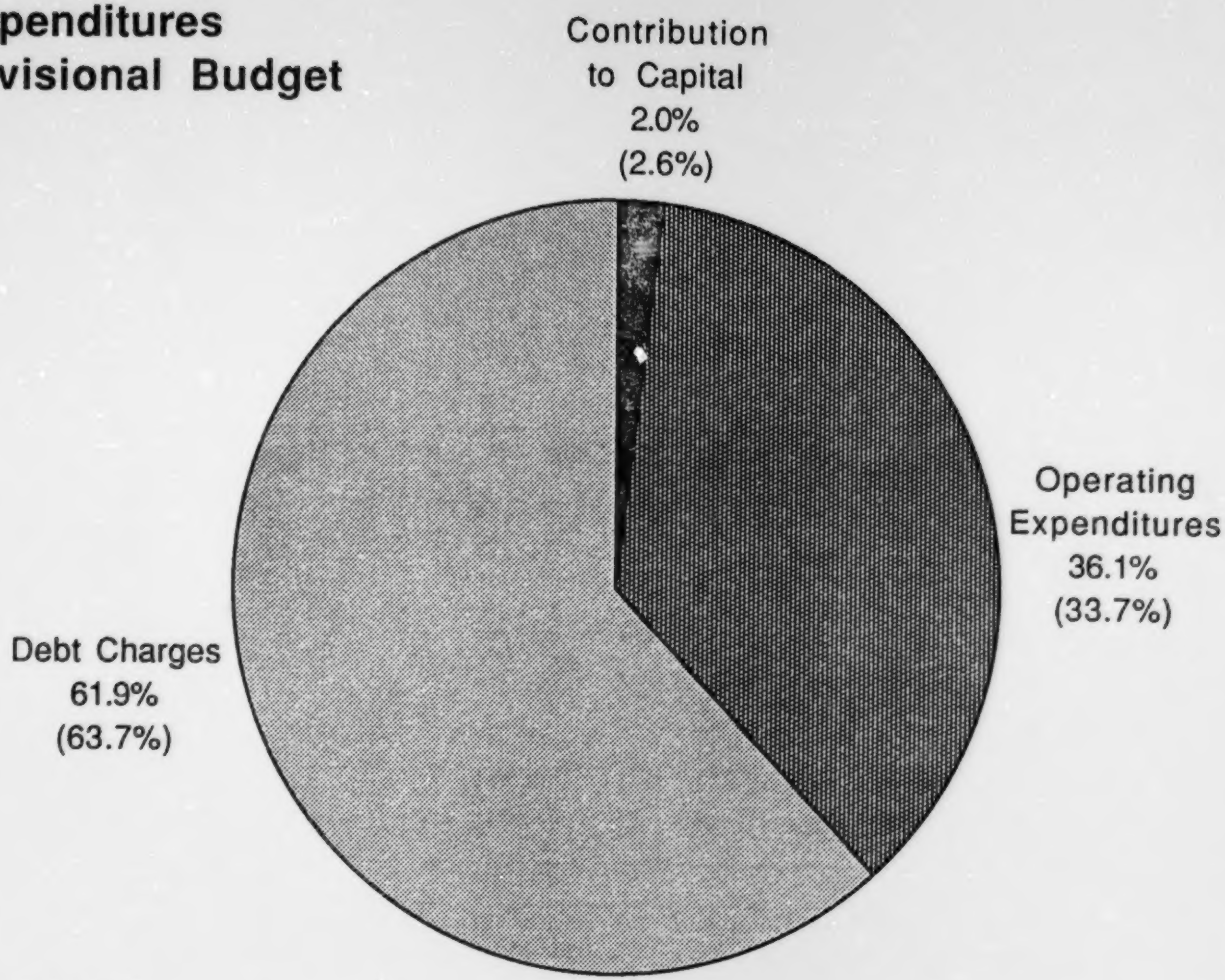
Schedule 2

GREATER VANCOUVER DISTRICTS
SUMMARY OF INCREASE IN
1989 OPERATING EXPENDITURES
OVER 1988 FINAL BUDGET

	Tax-Supported Functions					Self-Liquidating Functions					
	Regional District		Hospital District	Sewerage & Drainage District		Water District		Solid Waste		Total	
	$	%	$	$	%	$	%	$	%	$	%
1988 Final Budget	$10,686,598		$6,000	$14,994,685		$8,024,768		$18,094,587		$51,806,638	
1988 Extaordinary Items	(813,440)	(7.6)		(664,309)	(4.4)	(1,396,022)	(17.4)			(2,873,771)	(5.5)
1989 Base Budget	9,873,158		6,000	14,330,376		6,628,746		18,094,587		48,932,867	
1989 Extraordinary Items	830,800	7.8		538,200	3.6	1,312,482	16.4			2,681,482	5.2
Change in Level of Service	883,068	8.3		587,700	3.9	361,200	4.5	6,063,038	33.5	7,895,006	15.2
New Programs	269,300	2.5								269,300	0.5
Change in 1989 Base Budget	176,719	1.7		263,800	1.8	63,700	0.8			504,219	1.0
Inflation	392,932	3.7		542,839	3.6	176,158	2.2	955,700	5.3	2,067,629	4.0
	2,552,819			1,932,539		1,913,540		7,018,738		13,417,636	
1989 Provisional Budget	$12,425,977	16.3	$6,000	$16,262,915	8.5	$8,542,286	6.4	$25,113,325	38.8	$62,350,503	20.4

Schedule 3

Gross Expenditures
1989 Provisional Budget



1988 Final Budget
figures in brackets

Schedule 4

GREATER VANCOUVER DISTRICTS

Increase in 1989 Debt Charges

	1988 Final Budget	1989 Increase/ (Decrease)	% Change
Regional District			
Air Pollution	$ 48,200	$ (48,200)	
Parks	900,563	67,837	
Electoral Areas	198,168	15,372	
E911 Emergency Telephone System		9,500	
	1,146,931	44,509	3.9
Sewerage & Drainage District	19,616,777	(417,280)	(2.1)
Hospital District (1)	28,645,535	4,937,002	17.2
Water District	7,547,516	1,268,169	16.8
Solid Waste Operations	4,260,169	2,941,399	69.0
	$61,216,928	$8,773,799	14.3

(1) Net of Provincial Grant;

Excludes financing for members.

Schedule 5

GREATER VANCOUVER DISTRICTS

1989 MEMBERS' TAX REQUISITIONS

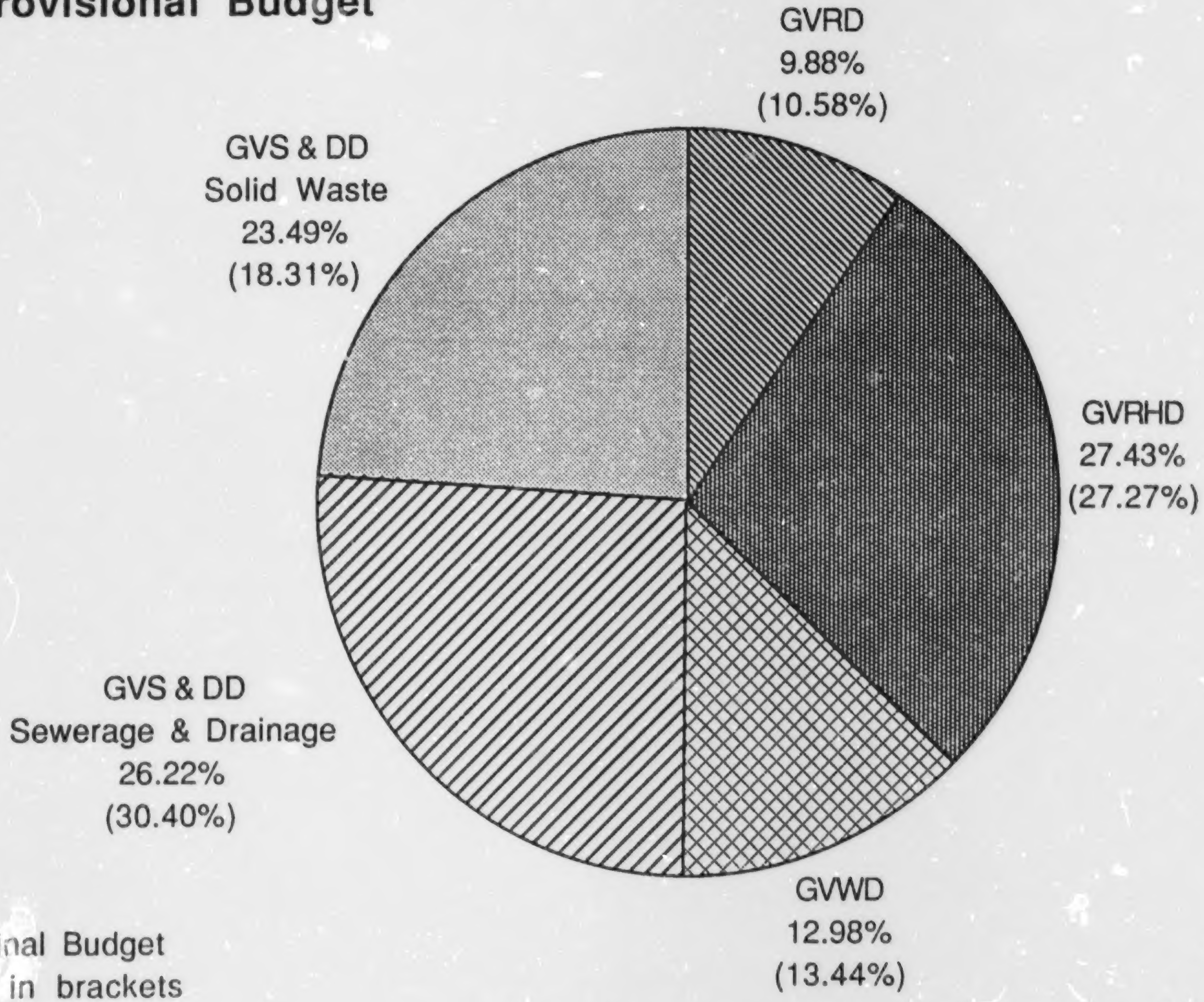
AND USER CHARGES

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Tax Supported Functions				
Regional District				
General Government	$ 1,731,751	$ 1,731,751	$ 1,675,790	
Air Pollution Control	996,632	996,632	1,179,800	
Hospital Planning	431,210	431,210	438,943	
Labour Relations	1,517,531	1,517,531	1,684,298	
Parks	5,362,335	5,362,335	5,737,700	
Development Services	870,000	870,000	1,149,830	
Electoral Areas	456,754	458,721	494,573	
E911 Emergency Telephone System			210,800	
	11,366,213	11,368,180	12,571,734	+10.6
Sewerage & Drainage	33,864,710	33,864,710	33,363,682	- 1.5
Hospital District	29,305,519	29,305,519	34,898,636	+19.1
	74,536,442	74,538,409	80,834,052	+ 8.4
Self-Liquidating Functions				
Water District	14,443,443	14,808,440	16,518,245	+14.4
Solid Waste Operations	18,500,204	17,221,605	29,893,500	+61.6
	$107,480,089	$106,568,454	$127,245,797	+18.4

Excludes financing for members.

Schedule 6

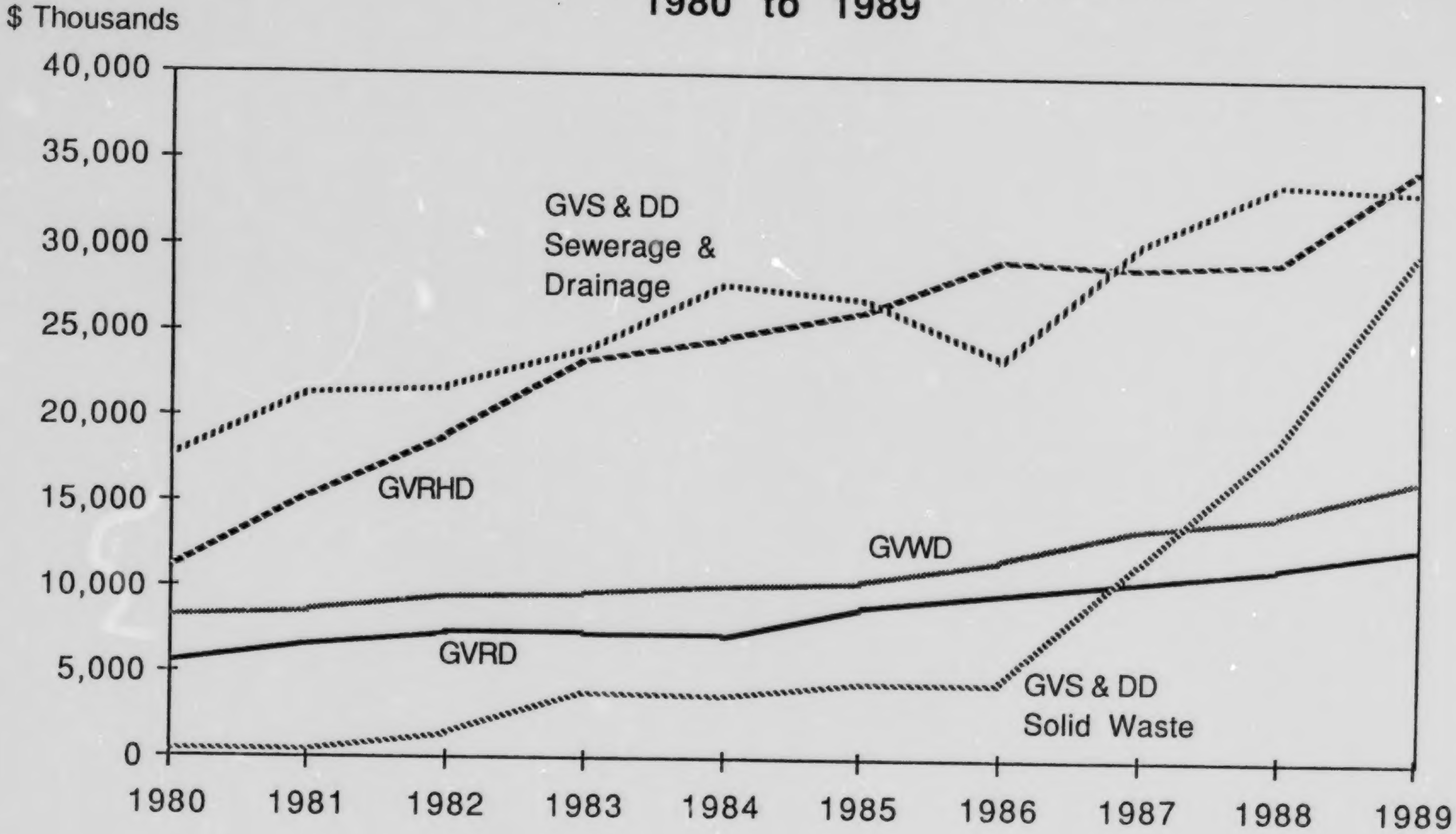
Members' Tax Requisitions & User Charges
1989 Provisional Budget



1988 Final Budget
figures in brackets

Schedule 7

Members' Tax Requisitions & User Charges
1980 to 1989



MICHAEL J. O'CONNOR
COMMISSIONER

Greater Vancouver Water District

ESTABLISHED 1924

4330 KINGSWAY
BURNABY, B.C.
CANADA V5H 4G8
PHONE (604) 432-6200
FAX (604) 432-6251

TO: Administration Board
FROM: Secretary Treasurer
RE: 1989 Provisional Budget
DATE: November 23, 1988

The Greater Vancouver Water District Provisional 1989 Budget is presented for your consideration.

1988 Operations

The current year's operations are projected to result in a surplus of $810,926, down from the $1,102,841 surplus carried forward from the previous year. The surplus is due mainly to water consumption being more than average and debt charges being less than estimated.

1989 Budget

The provisional budget assumes water consumption estimates based on average seasonal variations. Debt charges are up 16.8% based on a $14,578,000 capital expenditure program. Operating costs are increased 6.4%. Research and development costs are continuing at a relatively high level because of the major water quality studies being undertaken.

The net amount to be raised from the sale of water is up 14.4% from the 1988 budget. This results in the water rate increasing from 4.09¢ to 4.45¢ per cubic metre (8.8%). The 1989 water rate is in line with the 4.42¢ (1987 dollars) per cubic metre projected in the 1987-1991 capital expenditure program.

Changes in the operating budget from the 1988 budget are summarized as follows:

	OPERATIONS & MAINTENANCE	ADMINISTRATION & GENERAL EXPENSE	RESEARCH & DEVELOPMENT	TOTAL
1988 Final Budget	$6,359,651	$583,868	$1,081,249	$8,024,768
1988 Extraordinary Items	(676,540)	(52,400)	(667,082)	(1,396,022)
1989 Base Budget (before inflation)	5,683,111	531,468	414,167	6,628,746
Extraordinary Items (Appendix A)	705,800		606,682	1,312,482
Increased Level of Service (Appendix B)	361,200			361,200
Increases in Base Budget (Appendix C)	(29,000)	92,700		63,700
Inflation	133,655	5,225	37,278	176,158
1989 Provisional Budget	$6,854,766	$629,393	$1,058,127	$8,542,286

Appendix A

GREATER VANCOUVER WATER DISTRICT

1989 EXTRAORDINARY ITEMS

OPERATIONS & MAINTENANCE

Installation of telemetry equipment to relay flow totalizer readings	$ 20,000
Replacement of power cables	25,500
Replacement of pipework at the South Lynn Creek aerial crossing	94,200
Replacement of plug and valve operators	56,000
Installation of bearing temperature detectors and switches	12,500
Installation of check valve connections and regulating valves	41,600
Improvements to ventilation	86,400
Replacement of concrete stop logs at Seymour Dam	16,000
Replacement of upper standing booms on Seymour Lake	23,000
Replacement of water storage tank	5,500
Stability Reviews - Cleveland and Seymour dams	103,000
Automation of valve at Clayton Reservoir	20,300
Replace and relocate electrical equipment	9,000
Supervisory equipment	34,000
Beach Yard Computer	31,200
Installation of control kiosk	5,000
Replacement of pump controller	6,000
Reservoir Cleaning	116,600
	$705,800

RESEARCH & DEVELOPMENT

Water Quality Program Staffing, consulting, materials & laboratory costs	$606,682

Appendix B

GREATER VANCOUVER WATER DISTRICT

Changes in Level of Service

Chlorination Mechanic - for operations of water quality program pilot plant	$ 57,400
Increased maintenance requirements because of takeover of South Delta facilities	44,600
Increased electrical staff to accommodate additional equipment installation and increased workload	54,900
Water quality monitoring increased to include testing on weekends and holidays	119,700
Increased chlorine to maintain present dosage rates with greater water consumption	84,600
	$361,200

Appendix C

GREATER VANCOUVER WATER DISTRICT

INCREASES IN BASE BUDGET

Operations & Maintenance

Annualization of 1988 staff addition	$ 7,400
Reallocation of indirect costs due to reorganization of Air Pollution/Quality Control	(36,400)
	$(29,000)

Administration & General Expense

Increases in allocated Administrative offices, corporate services and central administrative service	$ 92,700

GREATER VANCOUVER WATER DISTRICT

Provisional Revenue and Expenditure Budget

Year Ending December 31, 1989

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GREATER VANCOUVER WATER DISTRICT

Long-Term and Ongoing Role

The water supply function involves the acquiring and supplying of potable water in bulk for the use of the inhabitants of the District for all purposes at equitable rates and includes supply to some adjacent areas outside the District. Membership in the Water District by municipalities is voluntary, however there is no opting out of the District once a member has joined. The District functions in accordance with the provisions of the Greater Vancouver Water District Act (1924). Water is supplied from the three uninhabited watersheds that are closed to the public and located in the mountains north of the populated metropolitan area. The surface supply, which has its origin as rainfall and snowmelt, is of very high quality.

The Capilano, Seymour and Coquitlam systems serving respectively the western, central and eastern sectors of the Greater Vancouver area consist of dams, pipelines, pumping stations and reservoirs and are integrated systems designed to provide a reliable and safe supply of water to the area. The water system has been developed in accordance with a long-term master plan for the growth of the region. This program has been integrated with the municipal water systems through a number of major studies that have been carried out cooperatively with the members. A five year capital program for new waterworks facilities with a breakdown of costs for each year is provided for the members. The facilities are not automatically constructed in the order set out in the program but rather the system is reviewed yearly following the peak summer flows to identify the most cost effective improvements that will enable the system to keep abreast of the growth in water demand. This style of program serves to delay major capital improvements for as long as possible and achieve maximum economy for the members as reflected in the annual rate charged for water.

1989 Short-Term Objectives

The programs to be undertaken in 1989 will see a continuation of the emphasis on improvements to the system capacity, reliability and water quality that began in earnest in 1987. The Capital funded programs which are comprised of construction projects as well as planning studies are estimated to collectively cost approximately $18,700,000 and are as follows:

- Improvements to the Coquitlam Intake tower consisting of an enlarged intake gate for increased capacity and a new travelling screen mechanism for water quality purposes. These works will complete the final stage in a series of improvements to the intake which first began in 1986.

- Installation of 10,000 feet of 78-inch diameter watermain on Pipeline Road in Coquitlam. This remaining section will complete the program to parallel the old 48-inch main from the intake to Lougheed Highway and is a key element of the works that will form the foundation for expanded use of the Coquitlam source.

- Design and construction of major mains and pumping stations to serve the Township of Langley and the eastern and southern sections of Surrey from the Coquitlam source. Included are new mains to improve service to Maple Ridge and an additional river crossing to be constructed of 54-inch diameter pipe upstream of Barnston Island.

- Design and construction of a new concrete Glenmore storage tank in West Vancouver to replace the two existing deteriorated woodstave tanks built in 1955.

- Replacement of a section of the North Burnaby main on the south shore of Burnaby Lake which has failed several times in the past few years.

- Replacement of a section of the Lulu Island-Delta main in Deas Slough in the Fraser River which was damaged by a dredge in 1984.

- Design and initiation of construction of a new supply main to serve the Little Mountain distribution centre from Boundary Road to replace existing deteriorated and undercapacity mains.

- A design study and major equipment upgrade of the Vancouver Heights pumping station which has served the District since 1958.

- Land acquisition, design and construction of facilities to consolidate the District's three works yards and water system control centre into a new centrally located facility.

- Continuation and completion of the Comprehensive Regional Water Supply Study which began in 1988 to review the Regions' water requirements for the next 50 years and provide an updated long range capital program for the construction of water supply facilities.

- Completion of studies to determine the feasibility of generating and selling electrical power using surplus water from the Capilano and Seymour systems.

- Development of the second stage of equipment to enable expansion and computerization of the supervisory control and data acquisition (SCADA) system for monitoring and controlling the water supply network.

Routine Operations and Maintenance activities continue to form a substantial part of the annual budget. The major areas of emphasis in the current program are as follows:

- Improvements to the ventilation of several major pumping stations to increase reliability under more frequent and sustained operation conditions due to the Regions' growth.

- Installation of monitoring equipment at several pumping stations to give advance warnings of possible mechanical problems.

- Replacement of obsolete and deteriorated electrical components at pumping stations and reservoir sites throughout the District.

- Improvements to system control and response time with the addition of increased telemetry sensing and remote valve operating equipment to connect with the main control center.

- A continuation of the reservoir cleaning program that would result in a rotating two year cleaning cycle of all the balancing reservoirs in the system.

The water quality improvement program will continue as a Research and Development item in 1989 progressing towards its goal of ensuring our water consistently complies with the B.C. Drinking Water Standards. This will include the sustained operation of the pilot programs and facilities constructed in 1988. Further research will be undertaken to confirm solutions to the water quality problems that need to be addressed. Included are studies on secondary disinfection to upgrade the protection against bacteria to the customers tap, corrosion control to reduce the leaching of lead and copper from domestic plumbing systems and primary disinfection to improve the level of protection at the sources for more resistant forms of natural organisms.

A report containing recommendations on a construction program for the Regional District is expected by the end of 1989.

Review of 1988 Objectives

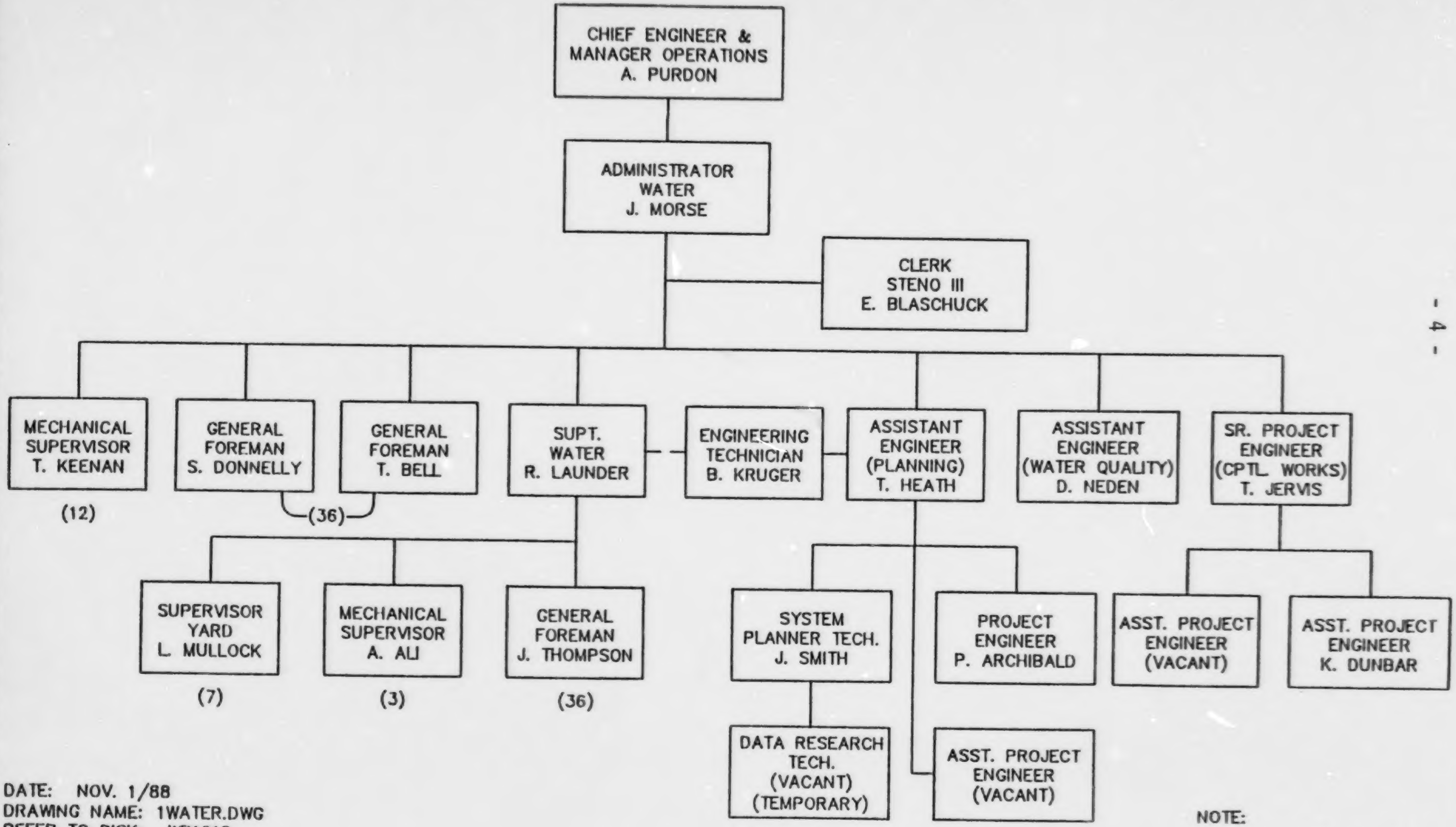
Capital works undertaken this past year resulted in the completion of permanent repairs to the North Shaft of the First Narrows Pressure Tunnel. This work, unique in its complexity and scope, was carried out largely by District crews and engineering staff and completed in time for the spring demands on the water system. The Whalley-Kennedy Link Main in Surrey was also completed by early spring and provided significant additional water supply to the west side of the municipality during the summer season. Improvements to double the output of the Cape Horn pumping station were delayed in the spring due to equipment supplier difficulties however, the installation of the new motors was completed in the fall.

The Regional Comprehensive Water Supply Study commenced and saw input from the member municipalities to achieve the coordinated effort needed for this large undertaking.

The regional water quality improvement program resulted in the construction of a large and comprehensive secondary disinfection and pH adjustment pilot plant in Surrey to test the effectiveness of alternative disinfectants. Pilot plants were also installed at the intake sources to gather additional information for primary disinfection evaluations and to seek alternatives to the existing source water chlorination treatment. A corrosion loop pilot plant was constructed at the Seymour intake to evaluate corrosion control strategies.

Numerous improvements to the system operation which were included as extraordinary items in the 1988 budget resulted in significantly upgraded control and reliability from prior years. As projected, the 1988 programs resulted in larger quantities of water being available with greater reliability at the close of 1988 than at the start. A continuation of this level of progress is built into the programs of the 1989 budget and this improvement in system performance is expected to continue.

GREATER VANCOUVER WATER DISTRICT


CHIEF ENGINEER & MANAGER OPERATIONS A. PURDON
ADMINISTRATOR WATER J. MORSE
CLERK STENO III E. BLASCHUCK
MECHANICAL SUPERVISOR T. KEENAN
(12)
GENERAL FOREMAN S. DONNELLY
GENERAL FOREMAN T. BELL
(36)
SUPT. WATER R. LAUNDER
ENGINEERING TECHNICIAN B. KRUGER
ASSISTANT ENGINEER (PLANNING) T. HEATH
ASSISTANT ENGINEER (WATER QUALITY) D. NEDEN
SR. PROJECT ENGINEER (CPTL. WORKS) T. JERVIS
SUPERVISOR YARD L. MULLOCK
(7)
MECHANICAL SUPERVISOR A. ALI
(3)
GENERAL FOREMAN J. THOMPSON
(36)
SYSTEM PLANNER TECH. J. SMITH
PROJECT ENGINEER P. ARCHIBALD
ASST. PROJECT ENGINEER (VACANT)
ASST. PROJECT ENGINEER K. DUNBAR
DATA RESEARCH TECH. (VACANT) (TEMPORARY)
ASST. PROJECT ENGINEER (VACANT)

DATE: NOV. 1/88
DRAWING NAME: 1WATER.DWG
REFER TO DISK: WB1012

NOTE:
( ) = STAFF SUPERVISED

Exhibit 'A'

GREATER VANCOUVER WATER DISTRICT

Provisional Revenue and Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Expenditures				
Operation & Maintenance of water system (Sch. 4 & 5)	$ 6,359,651	$ 6,228,253	$ 6,854,766	+ 7.8
Administrative & general expense (Sch. 6)	583,868	537,526	629,393	+ 7.8
Research & Development (Sch. 7)	1,081,249	1,333,329	1,058,127	- 2.1
	8,024,768	8,099,108	8,542,286	+ 6.4
Net Debt Charges (Sch. 1)	7,547,516	7,034,447	8,815,685	+16.8
Total Expenditure	$15,572,284	$15,133,555	$17,357,971	+11.5
Revenue				
Income deferred from previous year	$ 1,102,841	$ 1,102,841	$ 810,926	-26.25
Miscellaneous income	26,000	33,200	28,800	+10.8
Total Revenue	$ 1,128,841	$ 1,136,041	$ 839,726	-25.6
Net amount to be raised from the sale of water	$14,443,443	$13,997,514	$16,518,245	+14.4
Metered Sale of Water (Sch. 8)				
Member municipalities	$13,775,374	$14,133,545	$15,763,154	+14.4
Non-members	668,069	674,895	755,091	+13.0
Total	$14,443,443	$14,808,440	$16,518,245	+14.4
Net income deferred to following year		$ 810,926		

Schedule 1

GREATER VANCOUVER WATER DISTRICT

Debt Charges
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Debenture debt charges (Schedule 2)	$6,822,786	$6,822,786	$5,364,922	
Proposed debenture issue				
- new issue	1,857,960		3,639,199	
- refinancing temporary debentures	600,677	242,000	1,620,550	
	2,458,637	242,000	5,259,749	
Interest on short term borrowing	1,148,988	2,849,129	1,028,057	
Exchange on U.S. funds, net of amounts recoverable	425,343	340,800	332,400	
Sundry financial charges	24,500	24,500	25,500	
Gross Debt Charges	10,880,254	10,279,215	12,010,628	
Less				
Recoverable under agreements with member municipalities (Schedule 3)	1,537,280	1,473,130	1,425,532	
Net Debt Charges	9,342,974	8,806,085	10,585,096	
Principal & Interest charges to:				
- capital projects	10,000	12,000	4,000	
- office building operations	1,785,458	1,759,638	1,765,411	
	1,795,458	1,771,638	1,769,411	
Net Charge to Revenue	$7,547,516	$7,034,447	$8,815,685	

Schedule 2

GREATER VANCOUVER WATER DISTRICT

Debenture Debt Charges
Year Ending December 31, 1989

SINKING FUND DEBENTURES

ISSUE NUMBER	BY-LAW NUMBER	RATE	MATURITY DATE	DEBT RETIREMENT	INTEREST	TOTAL
39 (1)	151	9.5	Jan. 15, 1990	$	$ 257,246	$ 257,246
52	181	11.75	Apr. 18, 1989	118,356	347,671	466,027
53	189	9.0	Aug. 15, 1991	470,000	1,800,000	2,270,000
				588,356	2,404,917	2,993,273
			SERIAL DEBENTURES			
31	132	5.5	Apr. 15, 1989	41,030	2,268	43,298
32	135	5.5	Apr. 15, 1990	170,145	12,051	182,196
33	136	5.25	Jul. 1, 1990	8,487	672	9,159
34	137	5.25	Dec. 1, 2005	9,755	13,422	23,177
35	138	5.25	Dec. 1, 2005	9,988	13,743	23,731
46 (1)	168	9.75	Mar. 1, 1996	525,000	425,297	950,297
47 (1)	169	8.625	Jun. 22, 1997	193,507	170,146	363,653
48	172	9.625	Jan. 1, 1998	6,608	8,791	15,399
49	174	10.0	Jan. 1, 1999	16,700	27,610	44,310
50	173	10.25	Jul. 2, 1999	258,033	458,396	716,429
				1,239,253	1,132,396	2,371,649
Total Debenture Debt Charges				$1,827,609	$3,537,313	$5,364,922

Note (1) Debentures payable in United States Dollars.

GREATER VANCOUVER WATER DISTRICT

Debt Charges Recoverable Under Agreements with Member Municipalities Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
District of Burnaby				
Financing Agreement-Jan. 14/63	$ 16,041	$ 16,041	$	
Financing Agreement-Aug. 3/64	74,754	74,754	72,996	
North Burnaby Main-Section 2	9,163	9,163	8,948	
South Burnaby Main	150,333	150,333	150,333	
	250,291	250,291	232,277	
District of Coquitlam				
Port Moody Main No. 2	20,303	20,303	20,372	
District of Surrey				
Kennedy Heights Main & Reservoir (2)	26,216	20,994	22,528	
Surrey Westerman Main	1,081	1,081		
Surrey Hickleton Main	8,084	8,084		
Whalley-Clayton-Langley Main (1)	235,325	235,325	225,297	
Whalley-Clayton Main #2	61,497	61,497	52,179	
	332,203	326,981	300,004	
Township of Richmond				
Lulu Island-Delta Enlarged Main	13,138	13,138		
22-inch Main	115	115		
Richmond-Delta Enlarged Facilities (2)	191,444	180,696	181,788	
	204,697	193,949	181,788	
Carried Forward	807,494	791,524	734,441	

Note (1) Debentures payable in United States Dollars;
(2) Assumes refinancing of issue #51.

Schedule 3
(Continued)

GREATER VANCOUVER WATER DISTRICT

Debt Charges Recoverable Under Agreements with Member Municipalities Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Brought Forward	807,494	791,524	734,441	
Corporation of Delta				
Lulu Island-Delta Enlarged Main	4,838	4,838		
Richmond-Delta Enlarged Facilities (2)	526,193	488,374	499,618	
64th Avenue Main	25,768	25,768	25,768	
	556,799	518,980	525,386	
City of Port Moody				
Port Moody Main No. 2 & Reservoir	5,961	5,961	5,981	
District of Maple Ridge				
Haney Main No. 2 extension	5,931	5,931	5,951	
Enlarged Facilities Agreement of February 8, 1979 (2)	51,957	41,596	44,635	
Maple Ridge Reservoir	109,138	109,138	109,138	
	167,026	156,665	159,724	
Total	$1,537,280	$1,473,130	$1,425,532	

Note (1) Debentures payable in United States Dollars;
(2) Assumes refinancing of issue #51.

Schedule 4

GREATER VANCOUVER WATER DISTRICT

Operations and Maintenance
By Object of Expenditure
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$2,856,522	$2,662,212	$3,162,480	
Vehicles & equipment rentals	385,398	454,115	388,361	
Consultants	30,368	31,025	93,450	
Materials & supplies	661,272	838,646	655,077	
Other services	205,752	115,712	126,831	
Gasoline, fuel & lubricants	69,774	116,383	72,440	
Purchased repairs & maintenance	30,212	80,610	73,911	
Chlorine	193,440	244,007	288,892	
Electricity	677,404	590,617	697,974	
Natural gas	13,468	6,439	13,984	
Telephone	71,918	80,226	71,985	
Land taxes & rentals	348,608	355,339	374,990	
Insurance	93,527	92,996	90,079	
Water rentals to Crown	476,011	444,789	492,450	
Provision for equipment replacement	75,600	69,055	75,600	
Indirect departmental costs	581,248	427,195	558,622	
	6,770,522	6,609,366	7,237,126	
Less: Recoveries	410,871	381,113	382,360	
	$6,359,651	$6,228,253	$6,854,766	

Schedule 5(a)

GREATER VANCOUVER WATER DISTRICT

Operations and Maintenance
By Program
Year Ending December 31, 1989

	Sch	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Impounding Reservoirs & Source of Supply					
Impounding reservoirs		$ 127,723	$ 55,548	$ 79,224	
Capilano Intake		180,626	178,289	265,595	
Seymour Falls Intake		256,601	205,964	318,576	
Fish conservation		1,447	447	1,500	
Piezometer readings		18,521	11,822	19,495	
	5(b)	584,918	452,070	684,390	
Supply Mains & Distribution Reservoirs					
West District		401,165	439,390	495,836	
Capilano District		277,791	324,658	269,019	
Seymour District		229,673	278,916	296,500	
Coquitlam District		319,642	281,463	329,925	
East District		457,770	408,688	431,110	
	5(c)	1,686,041	1,733,115	1,822,390	
Pumping Stations					
Vancouver Heights		443,522	647,640	386,031	
Kersland		114,284	106,962	136,476	
Sasamat		52,305	71,096	54,287	
Little Mountain		83,358	68,490	80,190	
Central Park		202,975	174,678	198,351	
Maple Ridge		45,451	25,952	84,982	
Westburnco		85,346	74,678	88,577	
Burnaby Mountain		147,739	197,233	158,573	
Cape Horn		145,434	116,665	200,798	
	5(d)	1,320,414	1,483,394	1,388,265	
Chlorination	5(e)	574,542	507,288	621,465	
Quality Monitoring	5(f)	539,885	509,722	669,619	
General					
Beach yard control system		259,935	254,963	263,982	
Beach yard computerization		31,200	5,078	32,396	
Radio communications		70,595	64,982	78,621	
Meter reading & maintenance		122,552	132,791	126,779	
Yard operating & general maintenance		264,400	213,286	222,317	
Property taxes		336,960	342,775	363,342	
Insurance		92,248	84,000	88,800	
Water rentals to Crown		475,961	444,789	492,400	
		1,653,851	1,542,664	1,668,637	
Total		$6,359,651	$6,228,253	$6,854,766	

Schedule 5(b)

GREATER VANCOUVER WATER DISTRICT

Operations and Maintenance
Impounding Reservoirs & Source of Supply
Year Ending December 31, 1989

Purpose/Level of Activity

The activities associated with operating the watershed lakes and the dam intakes in Capilano, Seymour and Coquitlam are collectively included in this category. The mountain reservoirs, Loch Lomond, Palisade and Burwell Lakes which form the reserve supplies to the main reservoirs are part of this category. Routine maintenance and repair of the intakes and dams structures and lake screening form the major areas of operation.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$293,342	$193,450	$302,588	
Vehicles & equipment rentals	50,648	50,399	50,417	
Consultants			83,067	
Materials & supplies	101,608	137,883	96,865	
Other services	19,864	6,111	19,799	
Gasoline, fuel & lubricants	12,116	6,633	12,581	
Purchased repairs & maintenance	3,432	662	16,150	
Electricity	26,000	10,768	26,997	
Natural gas	1,716	539	1,782	
Telephone	3,608	3,514	3,616	
Land taxes & rentals		58		
Insurance	936	1,411	936	
Provision for equipment replacement	5,000	4,902	5,000	
Indirect departmental costs	71,016	40,345	68,960	
	589,286	456,675	688,758	
Less: Recoveries	4,368	4,605	4,368	
	$584,918	$452,070	$684,390	

GREATER VANCOUVER WATER DISTRICT

Operations and Maintenance
Supply Mains & Distribution Reservoirs
Year Ending December 31, 1989

Purpose/Level of Activity

This category contains the largest single sector of expenditure of the budget as would be expected to operate the 19 balancing reservoirs and approximately 500 kilometers of distribution mains spread throughout the Regional District. Water from the mountain reservoirs is distributed through these facilities at numerous metered locations to the District members. The balancing reservoirs in the system are utilized to supplement the demand during peak periods and are refilled during the low demand period of the day.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 946,424	$ 923,819	$1,024,265	
Vehicles & equipment rentals	186,850	220,068	188,430	
Consultants	4,368	5,123		
Materials & supplies	173,524	242,563	248,631	
Other services	40,643	42,048	22,582	
Gasoline, fuel & lubricants	7,956	4,929	8,261	
Purchased repairs & maintenance	9,776	20,120	24,094	
Electricity	41,756	33,465	37,957	
Natural gas	1,872	1,037	1,944	
Telephone	30,988	36,750	31,026	
Land taxes & rentals	11,544	12,164	11,544	
Insurance		7,488		
Provision for equipment replacement	4,900	5,918	4,900	
Indirect departmental costs	229,309	212,155	222,625	
	1,689,910	1,767,647	1,826,259	
Less: Recoveries	3,869	34,532	3,869	
	$1,686,041	$1,733,115	$1,822,390	

GREATER VANCOUVER WATER DISTRICT

Operations and Maintenance
Pumping Stations
Year Ending December 31, 1989

Purpose/Level of Activity

The topography of the Regional District and the elevation of the source waters permits much of the system to be operated by gravity flow. The elevation of some areas and the seasonal flows however require pumping to supplement the demand which is met by a series of 13 pumping stations. These stations are located adjacent to the system balancing reservoirs which provide the water pumped during peak periods.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 361,313	$ 384,711	$ 463,833	
Vehicles & equipment rentals	35,650	68,384	35,391	
Consultants			10,383	
Materials & supplies	191,920	264,997	112,805	
Other services	35,109	13,590	15,619	
Gasoline, fuel & lubricants	41,850	102,251	43,453	
Purchased repairs & maintenance	10,764	54,793	21,918	
Electricity	596,128	536,676	618,981	
Telephone	22,756	22,589	22,762	
Land taxes & rentals	104		104	
Water rentals to Crown	50		50	
Indirect departmental costs	62,987	70,726	73,112	
	1,358,631	1,518,717	1,418,411	
Less: Recoveries	38,217	35,323	30,146	
	$1,320,414	$1,483,394	$1,388,265	

Schedule 5(e)

GREATER VANCOUVER WATER DISTRICT

Operations and Maintenance
Chlorination
Year Ending December 31, 1989

Purpose/Level of Activity

The closed watershed policy of the Greater Vancouver Water District which limits access to authorized persons, enables the District to limit its water treatment at this time to screening and mild chlorination only. Chlorination levels were increased in 1986 as a first step to address the problem of the water not meeting the drinking water standards of the Province at all times.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$197,528	$136,422	$213,683	
Vehicles & equipment rentals	33,450	27,323	33,556	
Materials & supplies	49,764	32,097	32,235	
Other services	49,348	34,721	1,674	
Gasoline, fuel & lubricants	2,652	680	2,754	
Purchased repairs & maintenance	624	396	675	
Chlorine	193,440	243,757	288,892	
Telephone	906	579	912	
Provision for equipment replacement	100		100	
Indirect departmental costs	46,730	31,313	46,984	
	$574,542	$507,288	$621,465	

GREATER VANCOUVER WATER DISTRICT

Operation and Maintenance Budget
Quality Control
Year Ending December 31, 1989

Purpose

The purpose of this program is to provide microbiological and chemical monitoring of water at source, after treatment and in the distribution system in order to determine the level of treatment required, the effectiveness of chlorination, and the quality of water throughout the GVWD and municipal distribution systems, and need for mitigative actions such as flushing and cleaning.

Level of Activity

Water samples are collected from across the distribution system each working day and taken to the laboratory for bacteriological and chemical analyses. Approximately 25,000 bacteriological and 23,000 chemical and physical tests were carried out in 1988. Data is stored on a computerized database to facilitate report writing, graphical and statistical analyses.

In addition to the monitoring services, Quality Control staff provide technical advice to the District municipalities and health departments in the area and play a major role in the chlorination and certification of new and repaired District facilities before they are placed in service.

In 1988, the Water Quality Improvement Program initiated three major projects to study the effects of various water treatment strategies on water quality in the District: primary disinfection, secondary disinfection and corrosion control. The Quality Control laboratories are providing technical assistance and laboratory resources for all three projects. In 1988, there were approximately 8,000 bacteriological analyses and 28,000 chemical and physical tests carried out for the three projects.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$230,894	$213,387	$302,219	
Vehicles & equipment rentals	19,600	17,500	19,600	
Materials & supplies	35,048	36,600	37,048	
Other services	24,544	9,911	24,544	
Gasoline, fuel & lubricants	208	1,000	208	
Insurance		(276)		
Indirect departmental costs	229,591	231,600	286,000	
	$539,885	$509,722	$669,619	

Schedule 6

GREATER VANCOUVER WATER DISTRICT

Administration and General Expense
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Administration				
Allocated from Greater Vancouver Regional District				
- Administration offices	$ 191,000	$ 216,180	$ 252,000	
- Central administrative services	43,600	43,600	44,300	
- Corporate services	202,300	150,700	180,900	
Engineering administration	116,556	81,278	121,710	
	553,456	491,758	598,910	
General				
Legal	10,400	3,785	10,400	
Audit	14,500	14,456	14,500	
Travel	1,040	1,159	1,080	
Miscellaneous	4,472	18,524	4,503	
Water history		5,194		
Public Awareness Campaign		2,650		
	30,412	45,768	30,483	
Total	$ 583,868	$ 537,526	$ 629,393	

GREATER VANCOUVER WATER DISTRICT

Research & Development
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
General research & development	$ 30,134	$ 19,346	$ 32,375	
Water Quality Program (Schedule 7(a))	1,022,900	1,282,283	995,700	
Peak Summer Demand Survey	28,215	18,785	30,052	
Water Source Study		12,915		
	$1,081,249	$1,333,329	$1,058,127	

GREATER VANCOUVER WATER DISTRICT

Research and Development
Water Quality Program
Year Ending December 31, 1989

Purpose

The long term goal of this program is to improve water quality in the distribution system by changes in treatment. This will include the implementation of secondary disinfection and corrosion control and changes to the current primary disinfection program.

Level of Activity

In 1988, considerable progress was made in this program area. Pilot plants have been constructed to study alternative treatment strategies for the three main areas of interest: primary disinfection, secondary disinfection, and corrosion control. The pilot plants will be kept in operation until enough data has been gathered to allow a decision on an overall treatment strategy to be reached. Extensive use of District staff and laboratory facilities has been made in 1988 and it is expected that this level of activity will continue in 1989. It is anticipated that a final report outlining an overall water treatment strategy for the District should be ready by the end of 1989.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 205,200	$ 265,803	$ 265,600	
Vehicles & equipment rentals	5,000	45,000	16,000	
Consultants	425,000	451,000	303,400	
Materials & supplies	180,000	285,506	300,000	
Other services	156,000	183,974	37,000	
Gasoline, fuel & lubricants	800	1,500	800	
Purchased repairs & maintenance		200		
Land taxes & rentals		300		
Indirect departmental costs	50,900	49,000	72,900	
	$1,022,900	$1,282,283	$ 995,700	

Schedule 8

GREATER VANCOUVER WATER DISTRICT

Estimate of Water Sales
Year Ending December 31, 1989

Members	Consumption in Cubic Metres (1000's) Daily	Consumption in Cubic Metres (1000's) Annual	Rate Per Cubic Metre	Amount
Burnaby	106.99	39,052	0.0445	$ 1,738,975
Coquitlam (District)	39.63	14,466	0.0445	644,167
Delta	75.41	27,526	0.0445	1,225,725
Maple Ridge	20.77	7,582	0.0445	337,624
New Westminster	36.27	13,238	0.0445	589,485
North Vancouver City	22.74	8,300	0.0340	282,447
North Vancouver District	57.30	20,915	0.0445	931,339
Pitt Meadows	7.54	2,752	0.0445	122,546
Port Coquitlam	18.57	6,778	0.0445	301,823
Port Moody	18.58	6,780	0.0445	301,912
Provincial Institutions	1.37	499	0.0445	22,220
Richmond	96.50	35,223	0.0445	1,568,471
Surrey	115.00	41,976	0.0445	1,869,180
West Vancouver	25.45	9,291	0.0445	413,726
Vancouver	333.09	121,572	0.0445	5,413,514
Member Municipalities Total	975.21	355,950		15,763,154
Non-Members				
University Endowment Lands	18.89	6,899	0.0534	368,653
Capilano Hatchery	0.03	11	0.0534	588
City of Langley	9.50	3,466	0.1113	385,850
Non-Members Total	28.42	10,376		755,091
Total estimated Consumption	1003.63	366,326		
Total amount to be raised from the sale of water				$16,518,245

WATERSHED MANAGEMENT

Long-Term and Ongoing Role

In accordance with the Amending Indenture, dated March 17, 1967, to the 999 year lease dated August 13 and 18, 1927. The primary objective of the Forestry Department is to manage the timber within the Watersheds on a sustained yield basis in order to develop, protect and improve the lands' water yielding characteristics. The highest priority in the management of these lands is given to the water supply, both in terms of quality and quantity of water. The provisions of the Forest Management plan is secondary to this objective.

Current Short-Term Objectives

1. Continue the program of hydrological and water quality research through the U.B.C. Faculty of Forestry. This program was started in 1969 and will require an increasing portion of the budget each year to monitor the forestry activities.

2. Complete the new 5 year Management and Working Plan for submission to the Ministry of Forest by year end 1988 and approved by the Ministry of Forests by mid 1989.

3. Continue the watershed management program which includes fire protection, timber harvesting, road construction and maintenance, and slide and stream rehabilitation.

4. Continue the on-going basic silviculture program. Our objective is to establish a new forest, through planting, on all denuded areas within two years of denudation.

5. Continue to expand the intensive silviculture program. Intensive silviculture involves tending new forest after they have become established and includes juvenile spacing, commercial and pre-commercial thinning, pruning, conifer release and group selection.

6. Continue the development of the Seymour Demonstration Forest which was opened in August, 1987.

7. Reintroduction of aerial harvesting using a Wyssen Skyline system. This system was last used in the Watersheds in 1981.

8. Introduction of a commercial thinning program on an operational basis during winter 1988-89.

9. Topographic re-mapping of all 3 Watershed by the end of 1989.

10. Watershed-forest data base to be fully maintained in an in-house Geographic Information System by year-end 1989.

11. Entry into a "Partnership Agreement" with the B.C. Ministry of Forests in early 1989. This agreement will decrease the Ministry of Forests role in watershed operations and will increase G.V.W.D. responsibility and accountability. This is an operational requirement of the Ministry of Forests.

12. Completion of a Forestry Department informational brochure by September, 1989.

CAPITAL EXPENDITURE

The road construction program forms part of the continuing watershed and forest management objective of providing permanent road access throughout the watersheds. The road system in the watersheds provide access for harvesting, fire protection, and watershed maintenance.

The 1989 Capital Expenditure requirement for road culvert and bridge construction is as follows:

	Culvert		Bridge		Road		Total
	No.	Cost	No.	Cost	Km	Cost	Cost
Capilano Watershed	1	$10,000	-	$ -	5.5	$ 265,000	$ 275,000
Seymour Watershed	-	-	-	-	-	-	-
Coquitlam Watershed	7	70,000	2	260,000	11.5	875,000	1,205,000
	8	$80,000	2	$260,000	17.0	$1,140,000	$1,480,000

The projected capital expenditure for road construction in the watersheds for the next five years is as follows:

Year	Capilano	Seymour	Coquitlam	Total
1990	745,500	440,000	412,500	1,598,000
1991	781,400	332,500	355,000	1,468,900
1992	312,000	805,000	323,000	1,440,000
1993	557,500	727,500	210,000	1,495,000
1994	315,000	315,000	190,000	820,000

Watershed Management Financing

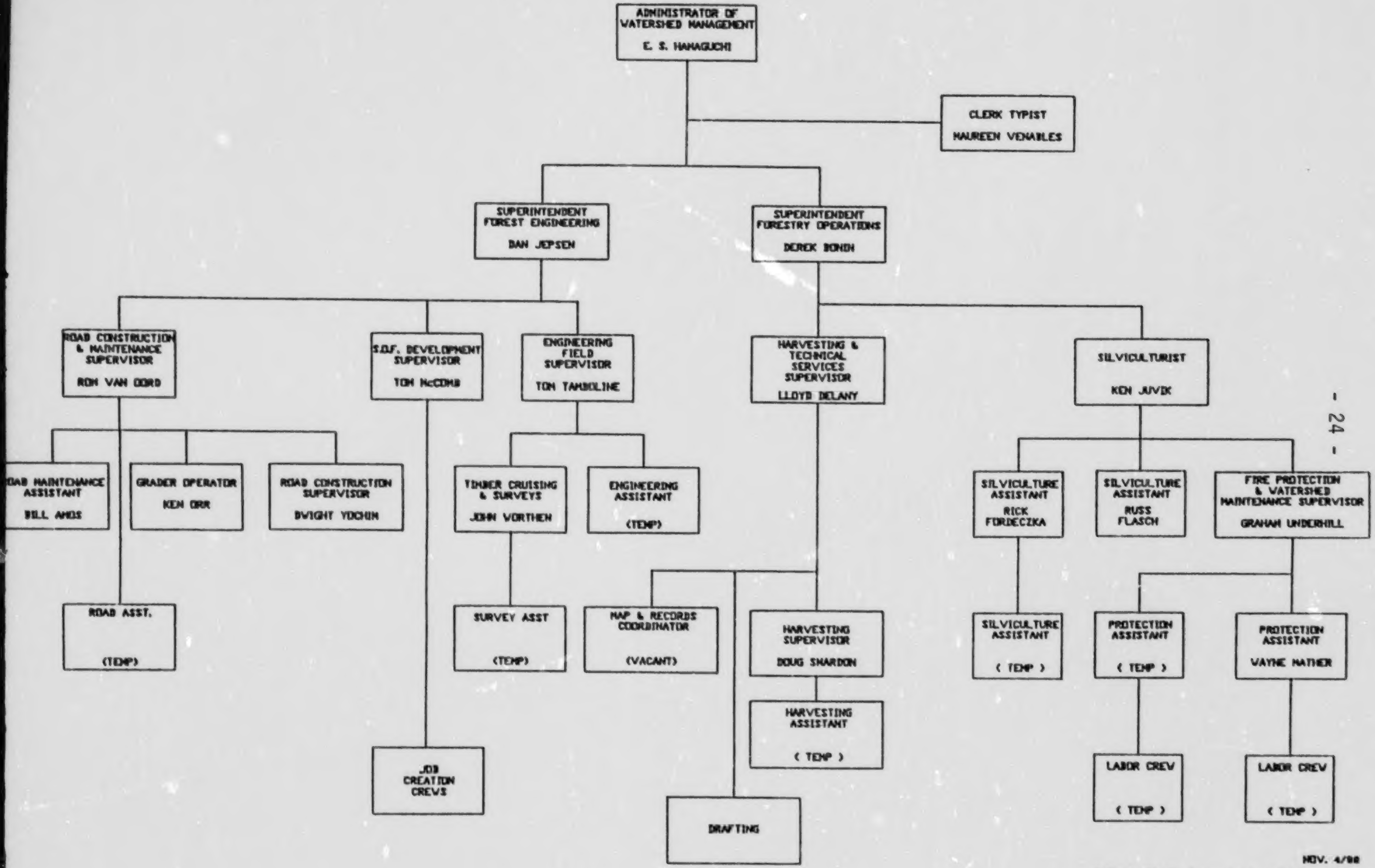
The Watershed Management Program is operated as a separate fund, and is not part of the regular Water District operations and has not impacted on the water rate to date. Over the years this program has produced net surpluses. These surpluses which have amounted to $9,124,186 at December 31, 1987 have been set aside in the Reserve Fund for the long term Watershed Management Program.

To date all capital expenditures for Watershed Management have been financed from the Reserve Fund and written off to operations based on volumes of timber removed. At December 31, 1987 the amortized cost of capital works amounted to $5,445,228 and represented the net advance from the Reserve Fund.

The Watershed Management Program carries such indirect costs as watershed taxes, interest charges, the Seymour Demonstration Forest Project and Watershed Security which would otherwise impact directly on the water rate.

Watershed taxes	$ 270,000
Security of Watersheds	960,220
Seymour Demonstration Forest	314,535
Interest charges (estimated)	70,000
	$1,614,755

G.V.R.D. FORESTRY DEPT
ORGANIZATION '89



NOV. 4/88

DRAWING No. WA-1252 SH.4

Schedule 9

GREATER VANCOUVER WATER DISTRICT

Watershed Management Program
Statement of Logging Income
Year ending December 31, 1989

	1988 Final Budget			1988 Revised Estimate			1989 Provisional Budget		
	FBM	AMOUNT	$ PER MFBM	FBM	AMOUNT	$ PER MFBM	FBM	AMOUNT	$ PER MFBM
LOG SALES	30,472,008	$11,502,889	377.49	23,000,000	$10,350,000	450.00	29,500,000	$12,685,000	430.00
COST OF LOGS SOLD									
Opening Inventory - Booms and Yards	8,677,204	3,211,173	370.07	8,677,204	3,211,174	370.07	10,997,204	4,209,788	382.81
Cost of Logs Produced (Schedule 10)	27,794,804	10,115,891	363.95	24,164,804	9,250,414	382.81	28,500,000	12,941,677	454.09
	36,472,008	13,327,064	365.41	32,842,008	12,461,588	379.44	39,497,204	17,151,465	434.25
Closing Inventory - Booms and Yards	6,000,000	2,183,700	363.95	10,997,204	4,209,788	382.81	9,997,204	4,539,670	454.09
	30,472,008	11,143,364	365.69	21,844,804	8,251,800	377.75	29,500,000	12,611,795	427.52
GROSS PROFIT FROM LOG SALES		359,525			2,098,200			73,205	
GENERAL EXPENSES									
Administration - Labour & Overhead		115,000			103,998			88,662	
- Office & other expenses		50,000			52,802			76,338	
		165,000			156,800			165,000	
Surveys, mapping and cruising		310,000			306,282			354,008	
Property Taxes		270,000			270,000			270,000	
Management Plan		68,000						91,258	
Watershed Research		25,000			22,336			19,688	
Protection Plan & Annual Report		10,000			185,497			106,398	
Demonstration Forest		285,000			285,000			314,535	
		1,133,000			1,225,915			1,320,887	
NET Income (loss) from Logging Operations before interest		(773,475)			872,285			(1,247,682)	
Interest on Funds Employed		120,000			219,060			200,000	
Net logging income (loss) for the year transferred to Reserve for future watershed management program losses		$ (653,475)			$ 1,091,345			$(1,047,682)	

Schedule 10

GREATER VANCOUVER WATER DISTRICT

Watershed Management Program
Cost of Logs Produced
Year ending December 31, 1989

	1988 Final Budget			1988 Revised Estimate			1989 Provisional Budget		
	FBM	AMOUNT	$ PER MFBM	FBM	AMOUNT	$ PER MFBM	FBM	AMOUNT	$ PER MFBM
FALLING AND BUCKING									
Opening Inventory - Woods	1,194,804	$ 20,819	17.42	1,194,804	$ 20,819	17.42	1,000,000	$ 18,335	18.33
Cost of Falling & Bucking	28,100,000	508,610	18.10	23,970,000	439,480	18.33	29,000,000	603,747	20.82
	29,294,804	529,429	18.07	25,164,804	460,299	18.29	30,000,000	622,082	202.74
Closing Inventory - Woods	1,500,000	27,150	18.10	1,000,000	18,335	18.33	1,500,000	31,228	20.82
	27,794,804	502,279	18.07	24,164,804	441,964	18.29	28,500,000	590,854	20.73
YARDING, LOADING AND HAULING									
Contract		3,194,000	114.91		2,638,818	109.20		4,281,863	150.26
Spur Logging Roads - Maintenance		560,000	20.15		1,294,490	53.57		1,333,059	46.77
- Amortization		400,000	14.39		400,984	16.59		629,415	22.08
Main Road Amortization		95,000	3.42		49,735	2.06		72,508	2.54
Concrete Bridge Amortization		70,000	2.52		113,364	4.69		222,887	7.82
Clearing Creeks		85,000	3.06		11,886	.49		21,400	0.75
Minor Forest Products & Salvage		5,000	0.18		10,035	0.42		100	0.00
		4,409,000	158.63		4,519,312	187.02		6,561,232	230.22
BOOMING									
Contract Services		390,000	14.03		328,567	13.59		437,208	15.33
Contract Equipment Rentals		40,000	1.44		62,113	2.57		60,000	2.11
Towing and Storage		80,000	2.88		25,000	1.03		80,000	2.81
Land Rental and Taxes		160,000	5.76		172,661	7.15		175,000	6.14
Log Loader		200,000	7.20		172,660	7.15		201,196	7.06
Materials and Supplies (Booming Gear)		15,000	0.54		18,172	.75		35,000	1.23
Beach Yard Maintenance		50,000	1.80		24,599	1.02		41,170	1.44
Amortization of Booming Ground		5,000	0.18		2,103	.09		3,094	0.11
Miscellaneous		20,000	0.71		35,657	1.48		36,223	1.27
		960,000	34.54		841,532	34.83		1,068,891	37.50
OTHER COSTS									
Stumpage, Royalty & Scaling		2,360,000	84.91		1,824,078	75.48		2,482,485	87.11
Basic Silviculture - Site preparation & Reforestation		320,000	11.51		237,389	9.82		464,191	16.29
Intensive Silviculture - Thinning, Spacing, Pruning		310,000	11.15		250,753	10.38		544,405	19.10
Watershed Fire Protection		242,000	8.71		216,966	8.98		269,399	9.45
Fire Suppression		20,000	0.72						
Watershed Security (Schedule 11)		992,612	35.71		918,420	38.01		960,220	33.69
		4,244,612	152.71		3,447,606	142.67		4,720,700	165.64
COST OF LOGS PRODUCED	27,794,804	$10,115,891	363.95	28,500,000	$ 9,250,414	382.81	28,500,000	$12,941,677	454.09

Schedule 11

GREATER VANCOUVER WATER DISTRICT

Watershed Security Program
Year Ending December 31, 1989

Purpose

The purpose of the Watershed Security Program is to protect the water supply and water catchment areas by controlling access, by apprehending trespassers and evicting them, and by assuring that the actions of those people working within the watersheds are consistent with District policy, and as such do not threaten the water supply.

Level of Activity

The Watershed Security section maintains a 24-hour guard at the following locations: Seymour Falls Dam, Capilano Watershed, Marion Divide (seasonal), and the Coquitlam Watershed. In addition, the section has been manning the Rice Lake guardhouse for the Seymour Demonstration Forest and will continue to do so in 1989.

In addition to the guardhouses, the section carries out vehicular and foot patrols throughout the watersheds, aimed at locating and removing trespassers. Additional patrols are added during the summer months to provide coverage between dawn and darkness. This practice, which was begun in 1987, has been successful in reducing the number of after hours trespassers and will be continued in 1989.

The watershed security section is also responsible for maintaining sanitation facilities in the watersheds. This involves supplying each work site with a toilet which is serviced daily. The toilet is moved as the work moves to assure that it remains convenient for use. Toilet wastes are removed by the security staff for incineration outside of the watershed. The Watershed Security group also maintains surveillance on all work sites to ensure proper storage and handling of petroleum products and wastes to prevent contamination of the water supply.

The security section also identifies problems related to District security facilities and advises on solutions. In this regard, provision has been made in the 1989 budget for installation of a fence at the remote end (Marion Divide) of the Capilano watershed.

In addition to the duties performed by field staff, office staff carry out a screening and certification program to determine eligibility of people who must enter the watersheds for work purposes. As many as 1200 applications from employees and non-employees are processed in a year.

In 1988, work was completed on a program to improve the watershed entry process including the production of an educational film which is now shown to all applicants. This educational approach has resulted in better protection of the water at source.

GREATER VANCOUVER WATER DISTRICT

Watershed Security Program
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$656,183	$624,520	$699,669	
Board & rented vehicles	75,800	77,100	76,160	
Mileage	520	200	541	
Telephone	2,200	2,400	2,500	
Legal	2,000		2,000	
Other services	50,000	6,200	52,624	
Purchased repairs & maintenance	2,600	3,000	3,120	
Materials & supplies	14,248	25,000	15,359	
Gas & electricity	6,968	3,000	7,247	
Provision for equipment replacement	1,000	1,000	1,000	
Indirect departmental costs allocated	191,093	176,200	110,000	
Recoveries	(10,000)	(200)	(10,000)	
	$992,612	$918,420	$960,220	

MICHAEL J O'CONNOR
COMMISSIONER

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

ESTABLISHED 1914

4330 KINGSWAY
BURNABY, B.C.
CANADA V5H 4G8
PHONE (604) 432-6200
FAX (604) 432-6251

TO: Administration Board

FROM: Secretary Treasurer

RE: 1989 Provisional Budget

DATE: November 23, 1988

The Greater Vancouver Sewerage & Drainage District Provisional 1989 Budget is presented for your consideration.

SEWERAGE & DRAINAGE

1988 Operations

The 1988 levy is estimated to be underexpended by about $2,150,000. Debt charges are $1,352,663 less than budget due to interest rates being less than estimated. Operation and maintenance costs are estimated to be underexpended by $734,972.

1989 Provisional Budget

The increase in operating expenses from the 1988 budget is summarized as follows:

	ADMINISTRATION & GENERAL	OPERATIONS & MAINTENANCE	RESEARCH & DEVELOPMENT	RECYCLING	TOTAL
1988 Final Budget	$620,797	$14,154,878	$60,838	$158,172	$14,994,685
1988 Extraordinary Items		(664,309)			(664,309)
1989 Base Budget (before inflation)	620,797	13,490,569	60,838	158,172	14,330,376
1989 Extraordinary Items (Appendix A)		538,200			538,200
Change in Level of Service (Appendix B)		587,700			587,700
Increase in Base Budget (Appendix C)	124,900	138,900			263,800
Inflation	2,595	522,248	1,804	16,192	542,839
1989 Provisional Budget	$748,292	$15,277,617	$62,642	$174,364	$16,262,915

Debt Charges

1989 capital expenditures are projected at $3,214,000. Debt charges are estimated to decrease 1.8% due mainly to the 1988 interest rate projection being too high.

Levy

The 1989 levy is down $865,191 (2.4%) from 1988 because of the large underexpenditure carried forward of $2,149,430.

SOLID WASTE DISPOSAL

1988 operations are projected to produce a loss of $135,107. Steam sales are expected to be $1,090,000 compared to a budget of $2,350,000. Volumes were also down - 587,900 tonnes, compared to a budget of 647,485 tonnes.

1989 operations include the first full year operation of the incinerator, with steam sales expected to be higher. Volumes are projected at 725,000 tonnes - an increase of 23.3%. The 1989 regional rate is $43.50 per tonne. The 1988 rate was $34.00 per tonne.

Appendix A

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

1989 Extraordinary Items

Iona Island STP		
Replacement of moisture separators	$ 15,000	
Concrete restoration and repairs	20,000	
Expansion of Intake Air Filtration system	5,000	
Purchase of engine cylinder liners	45,000	
Engine overhaul	50,000	
Sludge removal	60,000	
Replacement of mixer shafts	15,000	
Replacement of No. 2 Digester pipe	10,000	
Painting administration and maintenance buildings	16,000	
		$236,000
Annacis Island STP		
Overhaul cogeneration system	40,000	
Purchase of sedimentation tank chain	30,000	
Upgrade co-gen air filtration	8,000	
Purchase of spare impellor	5,000	
Sludge removal	103,200	
Modification to barscreen flushing	5,000	
Upgrade of boiler supply gas piping	8,000	
		199,200
Lulu Island STP		
Purchase of spare impellor	2,000	
Installation of housing around chlorinator	6,000	
Exchange of incinerator mercobowl	50,000	
		58,000
Lions Gate STP		
Housing for booster blower	5,000	
Painting No. 3 Digester	6,000	
		11,000
Pumping Stations		
Purchase of equipment to improve safety of electrical workers		4,000
Trunks and Interceptors		
Purchase of equipment to improve safety standards and quality of maintenance		30,000
		$538,200

Appendix B

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

Change in Level of Service

Sewerage Treatment Plants		
Increase in staff and related benefits required by need to control odours and cope with increased corrosion		$ 77,700
Engineering staff required to implement new computerized maintenance program, to assist in cost evaluation of sewerage treatment plant performance, to provide expertise in environmental engineering, and to meet an increasing workload		113,900
Upgrading of electrical drafting and records as a result of expansion and revisions at the four plants		68,300
A permit requirement for operation of the Deep Sea Outfall at Iona was that a major oceanographic and engineering study be carried out to confirm dilution predictions. This project, complete in 1988, will not be repeated in 1989 although a decreased level of monitoring will continue		(115,000)
Pumping Stations		
Maintenance supplies and electricity required for a new pumping station - Richmond East	$ 27,400	
Increase in staff (apprentice electrician) and related costs required to meet safety standards	52,200	
		79,600
Drainage Facilities		
Increasing drainage area inspections		22,800
Interceptors and Trunks		
Canadian National Railway's assessment for annual easement rentals for North Surrey interceptors	4,000	
Monitoring hydrogen sulphide levels	64,300	
Increase in staff (sewer regular) and related costs for maintenance of additional trunk sewers	43,000	
		111,300
Source Control		
Source control by-law implemenetation and administration		229,100
		$587,700

Appendix C

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

Increase in Base Budget

Source Control		
Merit/Reclassification Increases	$ 4,200	
Annualization of 1988 staff additions	1,900	
Allocated central cost centres	3,800	
Transfer of indirect costs from GVS&DD/GVWD, re reorganization of Pollution/Quality Control	48,800	
		$ 58,700
Operations		
Allocated costs	6,300	
Maintenance and repairs to keep laboratories in good operating condition	9,900	
Overtime required due to increased workloads	64,000	
		80,200
		$138,900
Administration & General		
Increase in corporate services allocation	$ 76,500	
Increase in administrative offices allocation	62,300	
Decrease in control administrative services allocation	(4,000)	
Decrease in miscellaneous general expenses	(2,970)	
Decrease in legal fees	(6,930)	
		$124,900

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Provisional Revenue and Expenditure Budget
Year Ending December 31, 1989

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* * * * *

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Long-term and Ongoing Role

Liquid and solid waste disposal (i.e. sewage, drainage and solid waste) is carried out by the Sewerage and Drainage District pursuant to the Greater Vancouver Sewerage and Drainage District Act. Membership in this District by municipalities is voluntary; however, once in, there is no provision for opting out. The District is legally obliged to perform in accordance with the Act.

1. Sewage - This program involves the collection, treatment and disposal of sewage from member municipalities in accordance with the 1953 Rawn Engineering Report and subsequent amendments. The collection and disposal is accomplished through a system of trunk and intercepting sewers, pump stations and a treatment plant in each of four Sewerage Areas which cover the entire District.

2. Drainage - This program involves the maintenance and improvement of drainage channels that traverse more than one municipality and that have been designated major drainage facilities as requested by members and approved by the Administration Board. Major drainage facilities are located within established Drainage Areas (areas having a single disposal point).

3. Solid Waste - This program involves the disposal of solid wastes generated by member municipalities who have availed themselves of the District's services.

1989 Short-term Objectives for Sewerage and Drainage Programs

The long-term and ongoing role will be maintained in 1989 by the following short-term objectives. Some of the objectives are to be accomplished by capital projects, others by the operation and maintenance programs described.

A. General Objectives

1. To prepare a Liquid Waste Management Plan under the provisions of the Waste Management Act, to provide for the current and future requirements of the Region.

   The Plan will cover the collection, treatment and disposal of liquid wastes. Phase I of the studies and public participation is now virtually complete and presents information on existing waste discharges together with a set of realistic waste management options with costs. Phase II, which is expected to commence in 1989, would consist of the preparation of a fully developed plan and could take another 2-3 years to complete.

   Recommendations of the Phase I report include (a) developing a regional source control bylaw and increasing source control activities, (b) an environmental monitoring program to determine the impact and significance of wastewater discharges (in particular, Annacis Sewage Treatment Plant), (c) effluent dechlorination and alternate sludge disposal methods for Lions Gate STP and (d) joint studies of combined sewer overflows by the District and the Cities of Vancouver and New Westminster to determine the best methods of reducing the impact of sewage overflows to local waters.

B. Treatment Plant Objectives

2. To reduce the impact of effluent discharges on the receiving environment by enlargement and improvement of the treatment plant facilities.

   - At the Annacis Island satellite pump station modify the Braid Street Gate raising system to avoid uncontrolled discharge of sewage through manholes during a possible power failure at the Sapperton Pumping Station.

   - At the Lulu Island Plant install a new barminutor to avoid bypassing sewage during a failure of one of the two existing barminutors. Flows have increased to the point that one barminutor is insufficient.

3. To control operation and maintenance costs by utilizing a computerized preventative maintenance program through acquisition of computers, programs, staff and staff training.

   - Computers will be installed successively at Lulu Island, Annacis Island, Iona Island and Lions Gate Sewage Treatment Plants. The computers' data will be accessible to terminals located in the Head Office. Full implementation of the project will extend into 1991.

4. To maintain structures, equipment and conduits through corrosion control programs.

   - Protective coatings will be applied on equipment at all four plants that has been damaged by corrosive gases.

   - Corroded mild steel equipment and piping will be replaced with aluminum or stainless steel at all four plants.

5. To replace equipment that has reached the end of its useful life.

   This equipment includes replacement of such items as diesel storage tanks at Iona, raw sewage pump impellers at Annacis and Lulu Island, the instrument air compressor and a chlorinator at Lions Gate.

6. Upgrading and maintenance of equipment and structures.

   Air filtration systems will be enlarged at Iona and Annacis. Some buildings and structures will be painted at Iona and Lions Gate. Major engine overhauls will be carried out at Iona and Annacis. A sludge centrifuge at Lulu Island will be overhauled. The grit handling and disposal system at Lions Gate will be overhauled and modified.

7. To minimize odor production and attendant corrosion problems.

   - At Annacis, chemical and operational costs will be incurred to operate wet-caustic, hydrogen sulfide scrubbing systems and further evaluate odor sources.

   - Temporary summer help will be employed at Iona, Annacis, Lions Gate and Lulu Island for intense cleaning programs during the summer months.

8. To minimize sludge disposal costs.

   - The contents of No. 2 sludge lagoon at Annacis and part of the contents of the S.E. sludge lagoon at Iona will be removed for on-site drying.

   - A study of suitable dewatering equipment will continue in 1989 to permit economical transportation of digested sludge from Lions Gate to a separate off-site facility.

   - Investigations will continue in 1989 to investigate and report on practical processes for the conversion of sewage sludge to a fertilizer product.

Review of Prior Years' Objectives for Plants

Capital works to reduce the impact of effluent discharges on the receiving environment and enlarge plant facilities continued in 1988.

- Construction of the Effluent Pumping Station and the Deep Sea Outfall at Iona were completed and the system commenced operation on April 1, 1988. Fine tuning of the system will continue until June 1989.

- Construction of a third preaeration and sedimentation tank at Lulu Island was completed in September 1988.

A consulting engineer and new engineering staff have worked in 1988 on the selection of an appropriate computerized maintenance program and hardware. Implementation will commence in early 1989 continuing on into 1991.

At the Iona Plant all extraordinary cost items identified for 1988, plus sludge removal (carried over from 1987), were carried out. In addition, the following items were carried out.

- Upon completion of a new plant water supply line that was installed under the Capital Works Program, the original plant water supply line was repaired to provide an emergency water supply.

- The No. 2 plant inlet including the conduit and siphon running beneath the North Arm of the Fraser to the plant was repaired and coated as a result of corrosive attack.

At the Lions Gate Plant all of the identified extraordinary cost items were carried out including the reconstruction of the Administration Building exterior (carried over from 1987).

At Annacis Island all identified extraordinary cost items were carried out. In addition, the following was carried out.

- The wet caustic scrubber system so dramatically reduced hydrogen sulfide from air that a second system was installed at the Plant inlet works in 1988. Work will continue on system tuning and odor evaluation in 1989.

At Lulu Island all the identified extraordinary cost items were carried out. In addition, the following was carried out.

- On February 1, 1988, an explosion, the result most likely of a fuel leak, substantially damaged the incinerator and associated equipment. Major repairs were carried out by Dillingham Construction and the unit returned to service on April 1, 1988. In addition to the major repairs, extensive modifications were carried out by District staff.

A. Sewer and Pump Station Objectives

1. To maintain the sewage transportation system in operation.

District crews will continue to carry out routine inspections and maintain the approximately 260 miles of large diameter sewers, the many flow-regulating structures and 34 pumping stations and forcemains.

The results of last year's program to control hydrogen sulphide attack in the larger sewers will be assessed and the program for rehabilitation of damaged sewers will be continued.

2. To reduce the risk of overflows due to system malfunction.

A program for timely replacement of old equipment will be upgraded. Existing equipment will be overhauled and at several pumping stations new equipment will be installed to increase capacity as the demands on the system increase.

The need for additional pumping capacity will be investigated at seven pumping stations and equipment installed where necessary. The need for emergency generators at eleven pumping stations will be investigated and equipment installed where necessary.

The level of maintenance will be improved by reorganization of maintenance crews and their area of responsibility. Two additional staff will be hired to operate and maintain the new pumping station in East Richmond and the additional sewers in the Langley area.

3. To carry out the District mandate to provide sewer service to new members and to keep pace with development.

In South Surrey sewer design will continue to extend service to the north slope. Construction will proceed as needed.

Two new sewer gauges will be installed and existing gauges will be upgraded where necessary to monitor flows in the system in order to identify undersized facilities and plan for their timely improvement. Efforts to locate areas of ground water intrusion into the sewers will continue and storm water separation will be stressed.

Work will also continue to locate and intercept any sanitary sewage discharges to receiving waters.

B. Drainage Objectives

1. To improve the operation and protection against flooding in the surface drainage courses administered by the District.

   Bank and channel repairs and improvements will be carried out as required in the various major drainage courses along with landscaping and general maintenance and brush cutting.

   In Port Moody and the north slope of Coquitlam the drainage study has been completed and the recommended first priority improvements to the system will be undertaken.

   Monitoring of peak flows in the major water courses will continue.

   Upgrading of rain gauges will continue with the installation of computer equipment to eliminate existing labour-intensive data processing.

Review of Prior Year's Objectives for Sewers, Pump Stations and Drainage

The sewage transportation system was maintained in operation without breakdowns, thus preventing significant overflows of untreated sewage.

Phase I of the Liquid Waste Management Plan was completed and incorporated within it is much of the work associated with combined sewer overflows which was originally planned as a separate study.

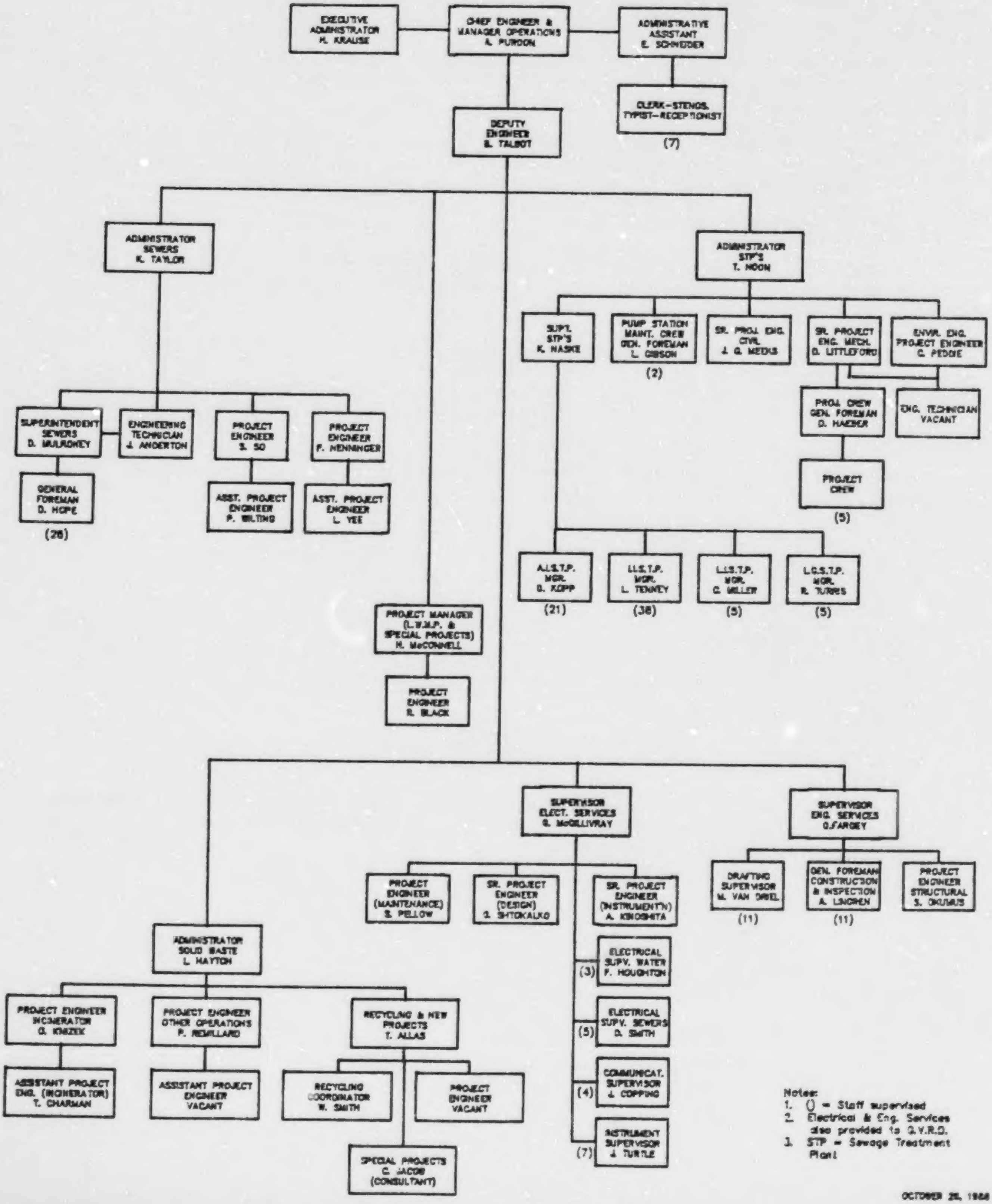
In Surrey, the Serpentine River Crossing was completed. This work is part of the continuing program to twin the existing sewers from South Surrey to the South Surrey Interceptor, to serve an increasing population.

Additional sewers and pumping station capacity was provided to meet increasing flows and to accommodate the Township of Langley. Cloverdale forcemain and Langley forcemain were twinned and Langley Pumping Station was upgraded. A new pumping station was installed in East Richmond to accommodate new development in that area.

The first stage of a program to repair damage to sewers caused by Hydrogen Sulphide was completed.

In New Westminster the Glenbrook Siphon was extended to McBride and Columbia Street to provide service to Woodlands School and a housing Development on the old Penitentiary site.

GREATER VANCOUVER SEWAGE AND DRAINAGE DISTRICT


EXECUTIVE ADMINISTRATOR H. KRAUSE
CHIEF ENGINEER & MANAGER OPERATIONS A. PURDON
ADMINISTRATIVE ASSISTANT E. SCHNEIDER
CLERK-STENOS. TYPIST-RECEPTIONIST
(7)
DEPUTY ENGINEER B. TALBOT
ADMINISTRATOR SEWERS K. TAYLOR
SUPERINTENDENT SEWERS D. MULRONEY
ENGINEERING TECHNICIAN J. ANDERTON
PROJECT ENGINEER S. SO
PROJECT ENGINEER F. HENNINGER
GENERAL FOREMAN D. HOPE
(28)
ASST. PROJECT ENGINEER P. WILTING
ASST. PROJECT ENGINEER L. YEE
ADMINISTRATOR STP'S T. NOON
SUPT. STP'S K. NASKE
PUMP STATION MAINT. CREW GEN. FOREMAN L. GIBSON
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SR. PROJECT ENG. MECH. D. LITTLEFORD
ENVIR. ENG. PROJECT ENGINEER C. PEDDIE
PROJ. CREW GEN. FOREMAN D. HAEBER
ENG. TECHNICIAN VACANT
PROJECT CREW
(5)
A.I.S.T.P. MGR. B. KOPP
(21)
I.I.S.T.P. MGR. L. TENNEY
(38)
L.I.S.T.P. MGR. C. MILLER
(5)
L.G.S.T.P. MGR. R. TURRIS
(5)
PROJECT MANAGER (L.W.M.P. & SPECIAL PROJECTS) H. McCONNELL
PROJECT ENGINEER R. BLACK
SUPERVISOR ELECT. SERVICES G. McGILLIVRAY
SUPERVISOR ENG. SERVICES O.FARDEY
PROJECT ENGINEER (MAINTENANCE) S. PELLOW
SR. PROJECT ENGINEER (DESIGN) G. SHTOKALKO
SR. PROJECT ENGINEER (INSTRUMENT'N) A. KINOSHITA
DRAFTING SUPERVISOR M. VAN DRIEL
(11)
GEN. FOREMAN CONSTRUCTION & INSPECTION A. LINGREN
(11)
PROJECT ENGINEER STRUCTURAL S. OKUMUS
(3)
ELECTRICAL SUPV. WATER F. HOUGHTON
(5)
ELECTRICAL SUPV. SEWERS D. SMITH
(4)
COMMUNICAT. SUPERVISOR J. COPPING
(7)
INSTRUMENT SUPERVISOR J. TURTLE
ADMINISTRATOR SOLID WASTE L. HAYTCH
PROJECT ENGINEER INCINERATOR G. KNIZEK
PROJECT ENGINEER OTHER OPERATIONS P. REMILLARD
RECYCLING & NEW PROJECTS T. ALLAS
ASSISTANT PROJECT ENG. (INCINERATOR) T. CHARMAN
ASSISTANT PROJECT ENGINEER VACANT
RECYCLING COORDINATOR W. SMITH
PROJECT ENGINEER VACANT
SPECIAL PROJECTS C. JACOB (CONSULTANT)

Notes:
1. () = Staff supervised
2. Electrical & Eng. Services also provided to G.V.R.D.
3. STP = Sewage Treatment Plant

OCTOBER 28, 1988

Schedule 1

Schedule 1

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Provisional Revenue & Expenditure Budget
Levy for Debt Charges,
Administration and
Operation & Maintenance Expenses

Year Ending December 31, 1989

1988 Final Budget	1988 Revised Estimate		Requirements for the Year Ending December 31, 1989	% Change over 1988 Final Budget	(Underexpended) Overexpended in 1988	1989 Provisional Levy
		GVS&DD Facilities Sewerage & Drainage Debt Charges				
$19,672,777	$18,320,114	GVS&DD Debt Charges (Sch. 4)	$19,316,697	- 1.8	$(1,352,663)	$17,964,034
(56,000)	(150,000)	Recovery - Interest earned less Sundry Financial Charges	(117,200)		(94,000)	(211,200)
19,616,777	18,170,114	TOTAL DEBT CHARGES	19,199,497	- 2.1	(1,446,663)	17,752,834
620,797	699,021	Administration & General Expense (Sch. 6)	748,292	+20.5	78,224	826,516
14,154,878	13,419,906	Operation & Maintenance (Sch. 7)	15,277,617	+ 7.9	(734,972)	14,542,645
60,838	54,969	Research & Development	62,642		(5,869)	56,773
34,453,290	32,344,010	Total Sewerage & Drainage	35,288,048	+ 2.4	(2,109,280)	33,178,768
158,172	168,722	Recycling Program	174,364	+10.2	10,550	184,914
34,611,462	32,512,732	Total GVS&DD facilities	35,462,412	+ 2.5	(2,098,730)	33,363,682
1,921,522	1,870,822	Financing for Members under Section 7(2) Debt Charges (Sch. 4)	1,583,073	-17.6	(50,700)	1,532,373
36,532,984	34,383,554		$37,045,485	+ 1.4	$(2,149,430)	$34,896,055
(771,738)	(771,738)	1987 underexpenditure carried forward				
	33,611,816					
$35,761,246	35,761,246	1988 Levy				
	$(2,149,430)	1988 Unexpended				

Burnaby	Coquitlam	Delta	Langley (City)	Langley (Dist.)	Maple Ridge	New Westminster	N. Van. City	N. Van. Dist.	Pitt Meadows	Port Coquitlam
$2,423,704	$ 868,030	$ 889,873	$206,365	$379,072	$ 982,295	$ 692,033	$216,875	$ 339,116	$165,789	$310,465
(28,469)	(11,207)	(9,900)	(2,291)	(4,240)	(7,349)	(6,748)	(4,006)	(7,061)	(1,243)	(3,445)
2,395,235	856,823	879,973	204,074	374,832	974,946	685,285	212,869	332,055	164,546	307,020
92,415	32,971	38,800	8,072	19,636	13,808	19,725	24,034	37,859	2,874	12,197
1,888,265	711,138	705,596	164,023	300,280	221,466	404,250	417,925	652,989	37,173	246,486
6,348	2,265	2,665	554	1,349	948	1,355	1,651	2,601	197	838
4,382,263	1,603,197	1,627,034	376,723	696,097	1,211,168	1,110,615	656,479	1,025,504	204,790	566,541
20,675	7,376	8,681	1,806	4,393	3,089	4,413	5,377	8,470	643	2,729
4,402,938	1,610,573	1,635,715	378,529	700,490	1,214,257	1,115,028	661,856	1,033,974	205,433	569,270
300,899	241,115							132,704		
$4,703,837	$1,851,688	$1,635,715	$378,529	$700,490	$1,214,257	$1,115,028	$661,856	$1,166,678	$205,433	$569,270

Schedule 1

an. y	N. Van. Dist.	Pitt Meadows	Port Coquitlam	Port Moody	Richmond	Surrey	U.E.L.	Vancouver	West Vancouver	White Rock
,875	$ 339,116	$165,789	$310,465	$223,979	$1,051,051	$1,921,066	$36,261	$6,739,564	$358,054	$160,443
,006)	(7,061)	(1,243)	(3,445)	(2,743)	(18,697)	(21,430)	(383)	(71,257)	(8,952)	(1,780)
,869	332,055	164,546	307,020	221,236	1,032,354	1,899,636	35,878	6,668,307	349,102	158,663
034	37,859	2,874	12,197	8,297	75,903	77,074	1,762	324,244	30,576	6,269
925	652,989	37,173	246,486	204,013	1,697,401	1,524,811	25,191	4,686,191	528,059	127,388
651	2,601	197	838	570	5,214	5,294	121	22,272	2,100	431
479	1,025,504	204,790	566,541	434,116	2,810,872	3,506,815	62,952	11,701,014	909,837	292,751
377	8,470	643	2,729	1,856	16,982	17,244	394	72,542	6,841	1,403
356	1,033,974	205,433	569,270	435,972	2,827,854	3,524,059	63,346	11,773,556	916,678	294,154
	132,704			17,181	261,414	16,684			562,376	
356	$1,166,678	$205,433	$569,270	$453,153	$3,089,268	$3,540,743	$63,346	$11,773,556	$1,479,054	$294,154

Schedule 2

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
Debenture Debt Charges
Year Ending December 31, 1989

SINKING FUND DEBENTURES

ISSUE NUMBER	BY-LAW NUMBER	RATE	MATURITY DATE	DEBT RETIREMENT	INTEREST	TOTAL
41	64	5.5	May 1, 1991	$ 56,428	$ 129,250	$ 185,678
47	75	7.5	Jul. 15, 1989-1994	8,454	149,224	157,678
48	78	9.5	Jan. 15, 1995		256,500	256,500
49	82	9.5	May 1, 1990		380,000	380,000
50	88	9.25	Oct. 1, 1995	62,857	277,500	340,357
53A	89	8.0	May 15, 1991	206,553	207,840	414,393
57B	93	7.75	Apr. 15, 1992	204,883	199,718	404,601
74B	114	9.5	Apr. 15, 1995	159,004	190,000	349,004
96	140	12.75	Oct. 15, 1989	142,027	601,520	743,547
97		9.0	Aug. 15, 1991	700,000	2,700,000	3,400,000
				1,540,206	5,091,552	6,631,758

SERIAL DEBENTURES

ISSUE NUMBER	BY-LAW NUMBER	RATE	MATURITY DATE	DEBT RETIREMENT	INTEREST	TOTAL
22	32	5.125	Jan. 1, 1989-2002	2,421	2,193	4,614
23	33	5.125	Jul. 1, 1989-2002	1,759	1,680	3,439
25	38	5.375	Oct. 1, 1989-2002	9,663	10,105	19,768
26	39	5.125	Jan. 1, 1989-2003	2,146	2,158	4,304
27	40	5.125	Jan. 1, 1989-2003	2,921	2,936	5,857
28	42	5.125	Jan. 1, 1989-2003	1,581	1,589	3,170
29	43	5.125	Jul. 1, 1989-2003	113,067	119,462	232,529
31	46	5.125	Jul. 1, 1989-2003	2,393	2,528	4,921
32	50	5.0-5.25	Jun. 15, 1989-1989	58,767	3,095	61,862
33	51	5.125	Jan. 1, 1989-2004	14,518	16,103	30,621
34	54	5.5	Nov. 16, 1989-1989	220,241	12,113	232,354
35	55	5.375	Jan. 1, 1989-2005	8,724	11,388	20,112
36	57	5.375	Jul. 1, 1989-1990	1,073	87	1,160
37	58	5.375	Jul. 1, 1989-1990	2,611	212	2,823
38	59	5.5	Jul. 2, 1989-1990	136,507	11,320	147,827
39	60	5.125	Jul. 1, 1989-2005	69,344	88,454	157,798
40	61	5.375	Dec. 1, 1989-2005	3,523	5,017	8,540
42	65	5.375	Jan. 1, 1989-2006	12,605	18,039	30,644
43	69	6.0	May 1, 1989-1992	160,041	34,456	194,497
44	70	5.375	Jan. 1, 1989-2007	25,477	39,833	65,310
45	71	6.125	Jan. 1, 1989-2007	922	1,769	2,691
46	72	6.0	Jul. 1, 1989-2007	1,537	2,983	4,520
51	90	6.875	Sep. 1, 1989-1990	9,289	1,101	10,390
			Carried Forward	861,130	388,621	1,249,751

Schedule 2
(Cont'd.)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
Debenture Debt Charges
Year Ending December 31, 1989

SERIAL DEBENTURES

ISSUE NUMBER	BY-LAW NUMBER	RATE	MATURITY DATE	DEBT RETIREMENT	INTEREST	TOTAL
			Brought Forward	$ 861,130	$ 388,621	$1,249,751
52	91	6.875	Jan. 1, 1989-1991	7,592	952	8,544
54	94	7.875	Jan. 1, 1989-1992	36,340	9,476	45,816
55	94	8.25	Jan. 1, 1989-1992	31,483	8,641	40,124
56	94	8.25	Jan. 1, 1989-1992	28,395	7,794	36,189
58	103	6.875	Jan. 1, 1989-1992	120,163	24,527	144,690
59B	102	8.0	Feb. 15, 1989-1993	221,027	82,294	303,321
60B	104	8.25	Jul. 2, 1989-1993	288,531	123,430	411,961
61	106	7.25	Jan. 1, 1989-1993	39,481	13,012	52,493
62	106	7.25	Jan. 1, 1989-1993	35,985	11,860	47,845
63	106	7.5	Jan. 1, 1989-1993	28,874	9,888	38,762
64	106	6.875	Jan. 1, 1989-1993	302,128	87,109	389,237
65	108	7.875	Jan. 1, 1989-1993	47,044	17,030	64,074
66	108	8.25	Jan. 1, 1989-1993	31,856	12,162	44,018
67	108	7.5	Jan. 1, 1989-1993	24,640	8,438	33,078
68	109	7.875	Jan. 1, 1989-1993	166,305	60,203	226,508
69	108	7.5	Jul. 1, 1989-1993	21,376	8,367	29,743
70	108	7.625	Jul. 1, 1989-1993	53,674	21,414	75,088
71	110	7.875	Jan. 1, 1989-1994	38,942	18,356	57,298
72	110	7.5	Jan. 1, 1989-1994	35,894	15,974	51,868
73	110	7.5	Jan. 1, 1989-1994	155,018	68,991	224,009
75	115	7.5	Jan. 1, 1989-1995	89,386	49,650	139,036
76	115	7.5	Jan. 1, 1989-1995	32,295	17,938	50,233
77	115	7.5	Jan. 1, 1989-1995	117,276	65,142	182,418
78	115	7.625	Jan. 1, 1989-1995	144,324	81,794	226,118
79	117	7.5	Jul. 1, 1989-1995	227,453	139,248	366,701
80	117	7.0	Jul. 1, 1989-1995	60,328	33,940	94,268
81	117	7.625	Jan. 1, 1989-1996	146,975	101,189	248,164
82	117	8.0	Jan. 1, 1989-1996	133,995	98,041	232,036
83	117	10.0	Jan. 1, 1989-1996	3,590	3,519	7,109
84	117	10.375	Jan. 1, 1989-1996	3,112	3,206	6,318
85	118	9.5	May 5, 1989-1996	350,000	244,183	594,183
86	119	7.875	Jul. 1, 1989-1995	44,594	29,002	73,596
87	119	8.0	Jan. 1, 1989-1996	42,659	31,213	73,872
88	121	8.875-9.375	Nov. 1, 1989-1997	152,339	183,181	335,520
89	124	7.625	Jan. 1, 1989-1997	238,997	195,900	434,897
90	125	8.0-9.75-10.5	Jan. 1, 1989-1998	139,424	196,725	336,149
91	126	9.625-10.0	Jan. 1, 1989-1999	22,448	36,115	58,563
92	127	10.0	Jan. 1, 1989-2000	69,217	133,260	202,477
93	128	11.75-12.0-12.5	Sep. 15, 1989-2000	400,000	581,797	981,797
				4,994,290	3,223,582	8,217,872
				$6,534,496	$8,315,134	$14,849,630

Schedule 3

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Debt Charges
Year Ending December 31, 1989

1988 Revised Estimate	Debenture Debt	1989 Provisional Budget		
		Debt Retirement	Interest	Total
$16,712,513	Greater Vancouver Sewerage & Drainage District Debenture Debt (Sch. 2)	$6,534,496	$ 8,315,134	$14,849,630
319,800	Premium on U.S. Funds	89,600	223,700	313,300
	Proposed debenture issues			
	- new issues	233,628	5,808,272	6,041,900
417,260	- refinancing temporary debenture issues	737,973	919,502	1,657,475
17,449,573		7,595,697	15,266,608	22,862,305
	Debt charges assumed re members' facilities			
8,986	City of Port Coquitlam	7,859	1,126	8,985
44,000	City of Langley		44,000	44,000
8,805,286	Interest on temporary capital borrowing		5,444,106	5,444,106
26,307,845	TOTAL DEBT CHARGES	7,603,556	20,755,840	28,359,396
	Less			
(152,155)	Interest on Mortgage		(140,300)	(140,300)
(2,442,289)	Interest charged to construction projects		(117,758)	(117,758)
(3,475,960)	Solid waste operations		(7,201,568)	(7,201,568)
(46,505)	Debt charges recovered from non-members			
$20,190,936	NET DEBT CHARGES	$7,603,556	$13,296,214	$20,899,770

Schedule 4

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Distribution of Interest and Debt Retirement Charges Year Ending December 31, 1989

1988 Revised Estimate		Requirements for the Year Ending December 31, 1989	(Underexpended) Overexpended in 1988	1989 Provisional Levy
	Sewerage Areas			
	Fraser			
$ 7,111,917	- General Facilities	$ 7,453,754	$ (283,770)	$ 7,169,984
948,170	- Maple Ridge/Pitt Meadows Facilities	863,419	(41,778)	821,641
798,673	Lulu Island West	879,818	(57,221)	822,597
	North Shore			
85,195	- Gleneagles Interceptor	94,844	(10,992)	83,852
743,620	- Other Facilities	734,263	(11,988)	722,275
7,329,313	Vancouver	7,702,355	(798,315)	6,904,040
	Drainage Areas			
527	Byrne Road	2,116		2,116
1,523	Kyle Street	5,244	57	5,301
4,479	Musqueam	4,479		4,479
5,226	Schoolhouse	9,191	52	9,243
	Still Creek-Brunette River			
246,736	- General	271,464	(3,998)	267,466
211,472	- Lower Brunette	195,203	(11,991)	183,212
672	William Street	4,397	48	4,445
	General			
85,359	Investigations, contribution to equipment fund, updating Rawn Report & construction facilities	223,825	(117,560)	106,265
26,385	Solid Waste Disposal Plan	33,359	(11,941)	21,418
720,847	Land Improvement Fund	838,966	(3,265)	835,701
18,320,114	Total Relative to District's Facilities	19,316,697	(1,352,662)	17,964,035
1,870,822	Financing for members under Section 7(2) (Schedule 5)	1,583,073	(50,700)	1,532,373
$20,190,936	TOTAL (Schedule 3)	$20,899,770	$(1,403,362)	$19,496,408

Burnaby	Coquitlam	Delta	Langley (City)	Langley (District)	Maple Ridge	New Westminster	N. Van. (City)	N. Van. (Dist.)	Pitt Meadows
$1,586,092	$801,763	$ 844,590	$197,165	$356,692	$ 263,663	$481,797	$	$	$ 43,768
					702,895				118,746
							188,826	294,931	
533,324									
2,111						5			
	2,484								
	4,504								
194,327	19,010					3,999			
						183,212			
	1,790								
11,881	4,239	4,989	1,038	2,525	1,775	2,536	3,090	4,868	369
2,530	903	1,063				540	658	1,037	
93,439	33,337	39,231	8,162	19,855	13,962	19,944	24,301	38,280	2,906
$2,423,704	$868,030	$ 889,873	$206,365	$379,072	$ 982,295	$692,033	$216,875	$339,116	$165,789

Schedule 4

an. y)	N. Van. (Dist.)	Pitt Meadows	Port Coquitlam	Port Moody	Richmond	Surrey	U.E.L.	Vancouver	West Vancouver	White Rock
	$	$ 43,768	$296,231	$202,668	$ 39,111	$1,831,115	$	$ 72,203	$	$153,126
		118,746								
					822,597					
									83,852	
26	294,931								238,518	
					100,759		34,204	6,235,753		
				2,817						
								4,479		
				4,739						
				1,416				48,714		
				2,655						
90	4,868	369	1,568	1,067	9,759	9,909	227	41,688	3,931	806
58	1,037		334	227	2,079	2,111	48	8,879	837	172
01	38,280	2,906	12,332	8,390	76,746	77,931	1,782	327,848	30,916	6,339
75	$339,116	$165,789	$310,465	$223,979	$1,051,051	$1,921,066	$36,261	$6,739,564	$358,054	$160,443

Schedule 5

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Distribution of Interest and Debt Retirement Charges For Financing Under Section 7(2) Year Ending December 31, 1989

		Provisional Requirements for the Year Ending December 31, 1989	Provisional (Underexpended) Overexpended in 1988	1989 Provisional Levy
District of Burnaby	6	$ 120,182	$	$ 120,182
	7	132,940	(8,032)	124,908
	8	61,477	(5,668)	55,809
		314,599	(13,700)	300,899
District of Coquitlam	3	714		714
	4	40,558		40,558
	5	31,117	(1,800)	29,317
	6	57,756		57,756
	7	15,990		15,990
	8	15,715		15,715
	9	35,681		35,681
	10	45,384		45,384
		242,915	(1,800)	241,115
District of North Vancouver	1	14,669		14,669
	2	102,248	(5,272)	96,976
	3	23,187	(2,128)	21,059
		140,104	(7,400)	132,704
City of Port Moody	1	19,481	(2,300)	17,181
Township of Richmond	1	23,303	(1,770)	21,533
	2	18,825	(1,430)	17,395
	3	46,263		46,263
	4	95,213		95,213
	5	37,340		37,340
	6	43,670		43,670
		264,614	(3,200)	261,414
District of Surrey	1	18,884	(2,200)	16,684
District of West Vancouver	3	7,617		7,617
	4	23,634		23,634
	5	24,165		24,165
	6	11,811		11,811
	7	374,772	(20,100)	354,672
	8	140,477		140,477
		582,476	(20,100)	562,376
		$1,583,073	$(50,700)	$1,532,373

Schedule 6

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Administration and General Expense Budget Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Administration				
Allocated from Greater Vancouver Regional District				
- Administration offices	$ 213,200	$ 240,080	$ 275,500	
- Corporate Services	251,500	306,900	328,000	
- Central administrative services	59,100	59,100	55,100	
Sewerage Area assessment database	14,071	9,946	11,311	
Engineering administration	51,726	32,828	47,155	
	589,597	648,854	717,066	
General				
Legal	10,400	10,796	10,400	
Audit	13,000	12,961	13,000	
Travel	3,120		3,245	
Miscellaneous	4,680	26,410	4,581	
	31,200	50,167	31,226	
TOTAL	$ 620,797	$ 699,021	$ 748,292	

Schedule 7

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

Operation & Maintenance Budget
By Program
Year Ending December 31, 1989

	Sch	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Sewer Treatment Plants					
Annacis Island STP	8(a)	$ 2,887,715	$ 2,749,888	$ 3,122,057	
Northwest Langley STP		208,000	208,000	216,320	
Iona Island STP	8(a)	3,730,891	3,179,995	3,862,831	
Lions Gate STP	8(a)	1,025,574	940,532	1,066,478	
Lulu Island STP	8(a)	1,010,921	1,033,532	1,095,088	
Sub-total		8,863,101	8,111,947	9,362,774	
Pumping Stations	8(b)	1,876,777	1,733,893	2,147,042	
Trunks & Interceptors	8(c)	913,215	1,076,684	1,046,104	
Drainage Facilities	8(d)	292,815	251,257	331,773	
General Maintenance		314,559	291,464	318,664	
Engineering	8(e)	261,256	261,775	262,170	
Quality Control	8(f)	1,034,490	1,156,686	914,490	
Source Control	8(g)	598,665	536,200	894,600	
		$14,154,878	$13,419,906	$15,277,617	

Schedule 8

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Operation and Maintenance Budget
By Object of Expenditure
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries, wages & employee benefits	$ 6,292,297	$ 6,075,513	$ 7,130,089	
Materials & supplies	1,606,501	1,564,232	1,522,116	
Other services	216,700	194,958	231,547	
Contracted services	208,000	208,019	216,320	
Consultants	298,635	408,937	292,427	
Vehicle & equipment rentals	478,155	655,469	619,514	
Repairs & maintenance	156,468	386,406	248,862	
Fuel oil & lubricants	361,520	246,995	319,687	
Natural gas	190,528	78,236	119,109	
Electricity	2,066,376	1,771,592	2,171,246	
Chlorine & sulphur dioxide	263,640	271,427	274,186	
Water	168,896	212,780	180,416	
Telephone	47,004	47,781	50,058	
Insurance	115,960	112,496	122,236	
Janitor service	1,352	582	1,406	
Land taxes & rentals	277,819	315,663	288,289	
Provision for equipment replacement	33,450	44,111	40,700	
Costs allocated				
Beach yard control system	172,576	158,344	172,576	
Radio communications	52,648	53,004	52,648	
Central Laboratory costs allocated	208,000	166,337	135,900	
Indirect departmental costs	1,299,683	1,250,816	1,457,463	
	14,516,208	14,223,698	15,646,795	
Less: Recoveries	361,330	803,792	369,178	
	$14,154,878	$13,419,906	$15,277,617	

Schedule 8(a)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Annacis Island Sewage Treatment Plant

Purpose/Level of Activity

The expenditures are associated with the treatment and disposal of primary sewage and sludge originating in Burnaby, Coquitlam, Delta, Langley City, Maple Ridge, New Westminster, Pitt Meadows, Port Coquitlam, Port Moody, Surrey, White Rock and a small portion of Vancouver and will also receive flow from East Richmond and Langley District early in 1989.

Allowances for materials and supplies and temporary summer help to operate and expand odour control facilities and upgrade existing facilities are included in the 1989 budget. An additional mechanic, who will be employed as part of the plant maintenance team, will be hired in 1989.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$1,280,403	$1,158,659	$1,411,848	
Vehicles & equipment rentals	138,445	200,356	165,650	
Natural gas	5,824	1,604	6,057	
Electricity	338,000	294,837	351,520	
Chlorine & sulphur dioxide	171,600	179,387	178,464	
Water	61,880	61,955	61,880	
Purchased repairs & maintenance	35,516	44,392	43,697	
Parts, materials & supplies	471,880	455,731	496,093	
Lubricants	35,776	12,156	30,426	
Fuel oil	11,440	8,689	11,898	
Other services	34,287	36,405	34,260	
Insurance	23,920	23,920	26,300	
Property taxes	87,256	87,256	90,746	
Telephone	9,000	9,053	9,000	
Provision for equipment replacement	5,500	22,214	5,500	
Indirect departmental costs allocated	176,988	153,274	198,718	
	2,887,715	2,749,888	3,122,057	
North-West Langley Sewage Treatment Plant	208,000	208,000	216,320	
	$3,095,715	$2,957,888	$3,338,377	

Schedule 8(a)
(Continued)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Iona Island Sewage Treatment Plant

Purpose/Level of Activity

The expenditures are associated with the treatment and disposal of primary sewage and sludge originating in Vancouver, the University Endowment Lands, portions of Burnaby, Richmond (Twigg/Mitchell Islands), and Vancouver International Airport.

The plant also operates a septic-tank truck dumping facility that provides service for non-sewered residences and industry located in the Regional District. This service is provided at a fee such that the charges match the cost of operations and maintenance of the facility.

Temporary summer help will be employed to assist in odour control measures.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Treatment Plant Operation				
Salaries & employee benefits	$ 716,666	$ 699,732	$ 798,413	
Vehicle & equipment rentals	20,250	35,068	20,250	
Water	38,480	84,888	50,000	
Telephone		580		
Insurance	312	273	312	
Purchased repairs & maintenance		327		
Parts, materials & supplies	26,208	9,450	27,256	
Fuel oil	1,040		1,082	
Other services	780	1,269	811	
Electricity	572,000	397,224	594,880	
Provision for equipment replacement	11,500	5,435	11,500	
Indirect departmental costs allocated	96,327	88,750	100,988	
	1,483,563	1,322,996	1,605,492	
Treatment Plant Maintenance				
Salaries & employee benefits	480,523	472,362	643,213	
Vehicle & equipment rentals	49,930	96,364	113,427	
Purchased repairs & maintenance	36,400	30,128	54,496	
Parts, materials & supplies	449,183	292,039	431,076	
Fuel oil	13,520	17,926	14,061	
Lubricants	5,720	8,258	5,949	
Other services	11,542	13,457	7,713	
Provision for equipment replacement	750	4,764	4,000	
Indirect departmental costs allocated	75,967	60,571	137,844	
	1,123,535	995,869	1,411,779	

(Continued)

Schedule 8(a)
(Continued)

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

Iona Island Sewage Treatment Plant (continued)

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Power Plant Operation				
Salaries & employee benefits	$ 203,072	$ 256,242	$ 254,159	
Fuel oil	166,400	85,991	130,000	
Natural gas	156,000	48,902	83,200	
Lubricants	29,120	19,953	20,800	
Purchased repairs & maintenance	208		216	
Parts, materials & supplies	1,248	71,557	2,330	
Other services	1,144	3,678	3,190	
Indirect departmental costs allocated	28,095	32,822	33,038	
	585,287	519,145	526,933	
Less: Recoveries	16,066	27,549	16,066	
	569,221	491,596	510,867	
Power Plant Maintenance				
Salaries & employee benefits	91,379	90,019	48,593	
Vehicle & equipment rentals	1,400	2,277	1,420	
Purchased repairs	25,272	28,983	30,410	
Parts, materials & supplies	95,368	95,241	52,237	
Other services	2,860	4,107	2,326	
Indirect departmental costs allocated	12,213	11,786	6,398	
	228,492	232,413	141,384	
General				
Salaries & employee benefits	194,234	114,581	95,472	
Vehicle & equipment rentals	11,800	9,710	11,800	
Telephone	4,852	5,303	4,854	
Insurance	28,912	29,400	32,600	
Property taxes & land rentals	22,776	20,266	23,683	
Materials & supplies	8,320	8,067	8,653	
Other services	10,138	12,549	11,205	
Purchased repairs & maintenance	1,456	2,594	2,080	
Indirect departmental costs allocated	54,364	14,757	10,959	
Provision for equipment replacement	1,500	1,500	1,500	
	338,352	218,727	202,806	
Less: Recoveries	12,272	81,606	9,497	
	326,080	137,121	193,309	
TOTAL	$3,730,891	$3,179,995	$3,862,831	

Schedule 8(a)
(Continued)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Lions Gate Sewage Treatment Plant

Purpose/Level of Activity

The expenditures are associated with the treatment and disposal of primary sewage and sludge originating in West Vancouver, and in the City and District of North Vancouver.

Temporary summer help will be employed to assist in odour control measures and assist in plant upgrading.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 421,238	$ 380,951	$ 476,164	
Vehicle & equipment rentals	35,900	18,311	26,600	
Water	31,200	31,233	31,200	
Natural gas	8,216	10,967	8,545	
Electricity	132,600	109,205	130,000	
Chlorine & sulphur dioxide	29,640	29,640	30,826	
Purchased repairs & maintenance	16,640	38,690	23,546	
Insurance	8,528	8,500	9,700	
Janitor service	1,352	582	1,406	
Lubricants	5,824	5,214	6,057	
Parts, materials & supplies	111,904	116,290	120,646	
Fuel oil	5,200	1,230	5,408	
Land rentals	93,775	94,770	93,775	
Telephone	3,052	3,951	3,054	
Other services	47,576	19,825	16,099	
Property tax	9,723	10,209	10,112	
Provision for equipment replacement	3,000	2,386	3,000	
Indirect departmental costs allocated	60,206	58,578	70,340	
	$1,025,574	$ 940,532	$1,066,478	

Schedule 8(a)
(Continued)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Lulu Island Sewage Treatment Plant

Purpose/Level of Activity

The expenditures are associated with the treatment and disposal of primary sewage and sludge originating in the West End of the Municipality.

Temporary summer help will be employed to assist in odour control measures.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 407,207	$ 431,584	$ 463,227	
Vehicle & equipment rentals	25,550	64,063	28,950	
Fuel oil	78,000	67,225	81,120	
Natural gas	18,200	14,376	18,928	
Electricity	128,440	110,064	133,578	
Chlorine & sulphur dioxide	62,400	62,400	64,896	
Water	24,232	24,262	24,232	
Purchased repairs	5,512	222,761	57,732	
Parts, materials & supplies	178,542	233,586	126,761	
Lubricants	1,768	3,343	3,120	
Insurance	6,032	6,100	6,900	
Telephone	5,500	4,689	5,500	
Other services	10,479	37,188	11,584	
Provision for equipment replacement	2,600	2,742	2,600	
Indirect departmental costs allocated	56,459	61,871	65,960	
	1,010,921	1,346,254	1,095,088	
Less: Recoveries		312,722		
	$1,010,921	$1,033,532	$1,095,088	
TOTAL SEWAGE TREATMENT PLANTS	$8,863,101	$8,111,947	$9,362,774	

Schedule 8(b)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Pumping Stations

Purpose/Level of Activity

The transportation system includes 34 separate pumping stations ranging in size from stations of one or two low horsepower pumps serving a limited area to line stations housing multiple units of several hundred horsepower. The stations are in continuous automatic operation. Increased flow now requires that some pumping units must be replaced or upgraded. One new pump station was installed in 1988.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries, wages & employee benefits	$ 614,333	$ 572,091	$ 749,733	
Materials & supplies	113,776	76,939	115,656	
Other services	11,908	5,803	12,306	
Vehicle & equipment rentals	61,060	60,263	66,426	
Repairs & maintenance	17,836	7,606	18,670	
Fuel oil & lubricants	3,432	1,082	5,857	
Electricity	862,264	828,739	953,589	
Water	10,348	10,351	12,948	
Telephone	16,450	14,963	19,500	
Land taxes & rentals	2,586	4,895	2,660	
Indirect departmental costs	162,784	151,161	189,697	
	$1,876,777	$1,733,893	$2,147,042	

Schedule 8(c)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Trunks & Interceptors

Purpose/Level of Activity

The expenditures associated with inspecting, operating and maintaining the gravity sewers, control structures and forcemains in each of the four sewerage areas are collectively included in this category. Approximately 7½ miles of trunk sewers were added in 1988 to upgrade capacity and serve new areas.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries, wages & employee benefits	$541,526	$ 589,372	$ 632,638	
Materials & supplies	52,988	78,068	40,639	
Other services	13,830	9,064	17,147	
Vehicle & equipment rentals	62,650	112,943	100,812	
Repairs & maintenance	4,732	3,730	3,569	
Fuel oil & lubricants	2,356	3,379	2,341	
Electricity	30,160	28,241	3,869	
Water	2,600			
Telephone	3,100	3,158	3,100	
Land taxes & rentals	31,689	64,764	36,101	
Indirect departmental costs	167,584	183,965	205,888	
	$913,215	$1,076,684	$1,046,104	

Schedule 8(d)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Drainage Facilities

Purpose/Level of Activity

Cariboo Dam regulates the level of Burnaby Lake which receives flow from Still Creek and other drainage courses. The dam controls the rate of flow into the Brunette River. Routine maintenance consists of brush cutting, repairs to drainage channels, restoration of flood scour damage and the upkeep of structures designed to trap sediments and debris transported during flood flows. An increased level of maintenance will be undertaken in the Port Moody/Coquitlam Drainage Area as recommended in a study of the area completed last year.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries, wages & employee benefits	$177,355	$148,076	$201,953	
Materials & supplies	11,544	9,443	11,356	
Other services	3,844	2,994	7,156	
Vehicle & equipment rentals	35,050	23,539	37,850	
Repairs & maintenance	520		541	
Fuel oil & lubricants	780	517	811	
Natural gas	416			
Electricity	1,248	2,140	2,080	
Telephone	1,650	3,171	1,650	
Land taxes & rentals	7,328	14,869	7,618	
Indirect departmental costs	53,080	46,508	60,758	
	$292,815	$251,257	$331,773	

Schedule 8(e)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Engineering

Purpose/Level of Activity

The engineering program covers engineering investigations of a broad nature related to the operation and maintenance of the sewerage and drainage system. Activities include investigating requests and proposals from municipalities, regulatory agencies, developers and private individuals; sludge disposal methods and alternatives; environmental studies; rainfall analysis for design and operational purposes; computer applications and other improvements in operations and maintenance methods.

Activity will continue in 1989 on sludge disposal investigations for the four treatment plants, environmental studies on Sturgeon Bank for the Iona Island Treatment Plant, engineering investigations for the four sewerage areas, preventative maintenance programs, sewer corrosion investigations and repair methods, upgrading of rainfall and sewer gauging systems, and expansion of the computer-assisted drafting (CAD) system.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries, wages & employee benefits	$117,561	$105,009	$126,623	
Materials & supplies	6,968	18,151	7,193	
Other services	7,540	9,142	7,195	
Vehicle & equipment rentals	2,670	842	2,570	
Consultants	69,835	81,507	61,027	
Indirect departmental costs	56,682	47,124	57,562	
	$261,256	$261,775	$262,170	

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Quality Control Program

Purpose

The purpose of this program is to determine characteristics of treated and untreated sewage at each of the four primary plants in order to evaluate the effectiveness of treatment and to comply with the requirements of the Waste Management permits for monitoring of effluent discharges. In addition, this program provides monitoring data on receiving water quality and metropolitan bathing beaches; provides laboratory, technical and analytical resources for identifying and solving problems within the Districts' collection and treatment facilities; provides project management for environmental impact studies and provides laboratory support for the District's Source Control program.

Level of Activity

Daily testing for various chemical and physical characteristics are undertaken at each sewage treatment plant laboratory. In 1988, sewage treatment plant technicians will carry out approximately 46,000 analyses on influent and effluent sewage, sludge and digester gas samples. In addition, main laboratory personnel will perform approximately 15,000 analyses related to sewage treatment monitoring programs and source control activities. Technical and laboratory support is also provided for special projects such as outfall monitoring studies and sludge disposal investigations.

The routine monitoring programs for receiving water and metropolitan bathing beaches in 1988 involved the collection and analysis of approximately 3,700 samples for fecal coliforms and related parameters. At the request of the Medical Health Officer, 20% of these samples were analyzed for the enterococci group of bacteria to help evaluate their usefulness as an indicator of water quality. Technical assistance and laboratory resources are provided to help identify specific problems, such as sporadic high fecal coliform results in the Deep Cove area. Over 400 extra samples from this area were analyzed by the GVRD laboratory during 1988.

During 1988, the Iona Deep Sea Outfall was put into operation. A number of programs were carried out to help assess the impact of the outfall on the receiving waters and to verify that the effluent plume is trapped below the saltwater/freshwater interface, as predicted by the 1983 Iona Deep Sea Outfall Feasibility Study. An extensive dilution and dispersion study was carried out in August of 1988. Due to the specialized nature of the monitoring required, the work was mostly carried out by consultants. Quality Control assisted with project management and provided laboratory and field staff for the project. To determine the necessity for chlorination at the Iona Treatment Plant, bathing beach monitoring was carried out from January to April of 1988. A total of 3000 samples were collected and analyzed for fecal coliform bacteria and related parameters.

Schedule 8(f)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Quality Control

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries, wages & employee benefits	$ 435,382	$ 412,813	$ 401,414	
Materials & supplies	36,816	87,100	29,844	
Other services	28,288	26,829	68,132	
Vehicle & equipment rentals	9,900	12,822	10,000	
Consultants	208,000	301,000	208,000	
Indirect departmental costs	316,104	316,122	197,100	
	$1,034,490	$1,156,686	$ 914,490	

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Source Control Program

Purpose

To provide for the maximum beneficial use of GVS&DD facilities by commercial and industrial dischargers consistent with the following requirements:

- Protection of health and safety of sewer workers and the general public.
- Prevention of the discharge to sewer of toxic substances which may pass through the treatment plant in concentrations in excess of permit maxima or which may result in treatment plant process upsets and/or environmentally unacceptable conditions in receiving waters.
- Protection of sewerage facilities from clogging, corrosion and explosion hazards.
- Protection of sewage treatment equipment and processes, and management of digested sludge quality to minimize disposal problems.

Activities or Level of Service

This program was implemented following the 1970 approval by the GVS & DD Administration Board of a set of regulations governing the admission of wastes into sewers. The District's ability to control industrial discharges to sewer was augmented in 1984 when the provincial government declared the Sewerage and Drainage District a Sewage Control Area under the Waste Management Act, which allowed the District to appoint a Sewage Control Manager.

The Pollution Control group carry out monitoring and enforcement services throughout the District, with priority for regulatory activity in the Fraser and Lulu Island West Sewerage Areas. The following activities are performed:

- Review applications for new industrial connections to District sewerage facilities, and provide advice to member communities regarding new connections to city and municipal sewer systems.
- Issue Orders under the Waste Management Act to regulate major non-domestic discharges.
- Investigate episodes related to abnormal sewage treatment plant influent quality.
- Prevent unauthorized dumping of waste to sewerage and drainage facilities.
- Maintain compliance with GVS&DD policy and regulations regarding the use of sewage treatment plant trucked waste disposal facilities.
- Monitor industrial discharges to sewer to ensure compliance with GVS&DD regulations and Waste Management Act Orders.

1989 Short Term Objectives

With the completion of Stage 1 of the Greater Vancouver Liquid Waste Management Plan in 1988, including the Source Control component, emphasis will be placed in 1989 on implementing the Stage 1 plan recommendation for effecting the control of sewer discharges at source.

These include:

1. Source Control Bylaw Development

The District will present a Source Control Bylaw to the Water & Waste Management Committee and the GVS&DD Board in 1989. Its development began in 1988 with a review of District goals and policies for enforcement. Establishment of discharge criteria and progress toward member municipality review of a draft Bylaw and implementation agreement began in 1988 and will be completed in early 1989. Additional resources for Source Control will be needed to implement the Bylaw and provide supplementary enforcement and laboratory support. The 1989 budget provides $229,100 for these purposes, but the exact cost will depend on the implementation date of the new Bylaw.

2. Source Control Enforcement

The Source Control Bylaw will form the basis for increased enforcement activity. Upon implementation, Pollution Control's enforcement strategy in 1989 will emphasize adherence to Bylaw requirements in addition to characterization of effluent quality.

Review of Prior Year's Objectives

Program activities in 1988 focussed on the issuance of Source Control Orders to various industries, particularly the metal finishing and plating sector. Over 60 such Orders had been issued by the end of 1988. Requirements included the establishment of programs at individual plants for monitoring sewer discharge quality and volume to provide a basis for possible further control action when the Source Control Bylaw is enacted. The existing GVS&DD Regulations for such discharges were considered interim objectives in these Orders. Generally, the volume of Source Control activities listed above increased significantly in 1988

Schedule 8(g)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Source Control

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries, wages & employee benefits	$394,711	$357,500	$597,200	
Materials & supplies	104	100	4,000	
Other services	39,416	27,300	47,800	
Vehicle & equipment rentals		100	10,000	
Indirect departmental costs	143,634	130,800	210,800	
Equipment replacement provision			4,000	
Consultants	20,800	20,400	20,800	
	$598,665	$536,200	$894,600	

Schedule 9

Schedule 9

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Distribution of Operation & Maintenance Expenses Year Ending December 31, 1989

1988 Revised Estimate		Provisional Requirements for the Year Ending December 31, 1989	Provisional (Underexpended) Overexpended in 1988	1989 Provisional Levy
	Sewerage Areas			
$ 5,008,609	Fraser	$ 5,883,744	$(125,545)	$5,758,199
1,385,177	Lulu Island West	1,555,663	(13,518)	1,542,145
1,452,031	North Shore	1,673,459	(139,567)	1,533,892
4,728,766	Vancouver	5,225,747	(400,208)	4,825,539
	Drainage Areas			
8,265	Byrne Road	13,767	(2,830)	10,937
18,249	Kyle Street	23,879	2,123	26,002
5,826	Schoolhouse Creek	19,885	(6,527)	13,358
214,749	Still Creek-Brunette River	261,539	(33,389)	228,150
	University	843	(799)	44
12,437	William Street	25,626	(2,961)	22,665
	General			
243,300	Pollution Monitoring	261,412	(26,729)	234,683
342,497	Miscellaneous	332,053	14,978	347,031
$13,419,906		$15,277,617	$(734,972)	$14,542,645

Burnaby	Coquitlam	Delta	Langley (City)	Langley (District)	Maple Ridge	New Westminster	N. Van. (City)	N. Van. (Dist.)	Pitt Meadows	Port Coquitlam	Po Moo
$1,273,788	$643,894	$678,288	$158,342	$286,459	$211,747	$386,930	$	$	$35,150	$237,902	$162
							401,010	626,343			
372,763											
10,911						26					
	12,184										1
	6,510										
165,762	16,216					3,411					
	9,128										1
26,239	9,362	11,017	2,292	5,576	3,921	5,601	6,824	10,750	816	3,463	
38,802	13,844	16,291	3,389	8,245	5,798	8,282	10,091	15,896	1,207	5,121	
$1,888,265	$711,138	$705,596	$164,023	$300,280	$221,466	$404,250	$417,925	$652,989	$37,173	$246,486	$20

Schedule 9

N. Van. (City)	N. Van. (Dist.)	Pitt Meadows	Port Coquitlam	Port Moody	Richmond	Surrey	U.E.L.	Vancouver	West Vancouver	White Rock
$	$	$35,150	$237,902	$162,762	$ 31,410	$1,470,565	$	$ 57,986	$	$122,976
					1,542,145					
401,010	626,343								506,539	
					70,425		23,907	4,358,444		
				13,818						
				6,848						
				1,208				41,553		
							44			
				13,537						
6,824	10,750	816	3,463	2,356	21,552	21,885	500	92,067	8,682	1,780
10,091	15,896	1,207	5,121	3,484	31,869	32,361	740	136,141	12,838	2,632
$417,925	$652,989	$37,173	$246,486	$204,013	$1,697,401	$1,524,811	$25,191	$4,686,191	$528,059	$127,388

Schedule 10

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Operation and Maintenance Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Fraser Sewerage Area				
Annacis Is. Sewage Treatment Plant	$2,887,715	$2,749,888	$3,122,057	
Annacis Is. laboratory	99,175	92,600	103,745	
Interceptors & trunk sewers	426,806	534,211	695,471	
Pumping stations	1,163,834	1,100,494	1,253,085	
Engineering	81,931	71,876	88,752	
Sludge disposal investigations	15,500	24,340	16,314	
Sewer use control	251,193	227,200	388,000	
	4,926,154	4,800,609	5,667,424	
North-West Langley Sewage Treatment Plant	208,000	208,000	216,320	
	5,134,154	5,008,609	5,883,744	
Lulu Island West Sewerage Area				
Lulu Is. Sewage Treatment Plant	1,010,921	1,033,532	1,095,088	
Lulu Is. laboratory	101,441	103,921	96,557	
Trunk sewers	9,628	5,949	11,785	
Pumping stations	78,992	58,203	87,169	
Engineering	6,414	7,730	6,842	
Sludge disposal investigations	21,460	19,142	22,522	
Sewer use control	169,839	156,700	235,700	
	1,398,695	1,385,177	1,555,663	
North Shore Sewerage Area				
Lions Gate Sewage Treatment Plant	1,025,574	940,532	1,066,478	
Lions Gate laboratory	98,050	85,000	100,866	
Lynn Pumping Station	98,125	86,333	252,129	
Interceptors	244,082	231,340	112,364	
Engineering	10,545	10,439	11,150	
Sludge disposal investigations	23,549	18,987	23,572	
Sewer use control	91,673	79,400	106,900	
	1,591,598	1,452,031	1,673,459	
Vancouver Sewerage Area				
Iona Is. Sewage Treatment Plant	3,730,891	3,179,995	3,862,831	
Iona Is. outfall, channel, jetty, roads & wharves	22,915	2,411	23,868	
Iona Is. laboratory	119,490	109,300	120,591	
Investigation of pollution of Sturgeon Bank	13,039			
Pumping stations	524,732	480,602	540,895	
Interceptors & trunk sewers	232,697	305,183	226,485	
Engineering	29,396	32,352	31,003	
Sludge Disposal Investigations	23,547	23,458	24,755	
Sewer use control	85,960	72,900	164,000	
Deep Sea Outfall Monitoring	346,307	522,565	231,319	
	5,128,974	4,728,766	5,225,747	

Schedule 10
(Continued)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Provisional Operation and Maintenance Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Byrne Road Drainage Area				
Willard St. Pumping Station	11,095	8,265	13,767	
Kyle Street Drainage Area				
Trunk drain	16,126	18,249	23,879	
Schoolhouse Creek Drainage Area				
Schoolhouse Creek	12,353	5,826	19,885	
Still Creek - Brunette River Drainage Area				
Brunette River & Burnaby Lake	103,771	103,870	109,883	
Stoney Creek	34,199	26,834	35,837	
Still Creek	94,508	75,508	99,368	
Lozells Creek	15,660	8,537	16,451	
	248,138	214,749	261,539	
University Drainage Area				
Shaft & tunnel	799		843	
William Street Drainage Area				
Trunk drain	15,398	12,437	25,626	
Pollution Monitoring	270,029	243,300	261,412	
Miscellaneous				
Rain, sewer & stream gauges	102,295	131,146	106,824	
Radio communications	52,648	53,004	52,648	
Beach yard control system	172,576	158,347	172,581	
	327,519	342,497	332,053	
TOTAL	$14,154,878	$13,419,906	$15,277,617	

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

SOLID WASTE FUNCTION

Long Term and Changing Role

The Greater Vancouver Sewerage and Drainage District establishes and operates facilities for disposal of municipal solid waste. Under an amendment of the Greater Vancouver Sewerage and Drainage District Act in 1974, (Section 7A of the Act) the District is given the authority to establish and operate facilities for disposal of wastes of all types, but at the present time has only become involved in the disposal of municipal-type wastes. An amendment of the Waste Management Act in 1982 encourages areas having common problems of waste disposal to establish Waste Management Plans to properly manage the disposal of their liquid and solid wastes.

Following several years of study on how to best manage the disposal of solid wastes generated in the Region, in December 1985 the Greater Vancouver Regional Solid Waste Management Plan was approved by the Minister of Environment. The Plan incorporates two landfills (both municipally owned and operated) and provides for the establishment of recycling plants, waste transfer stations, an incinerator with energy recovery, and prior-to-collection recycling programs to reduce to the practical minimum the quantity of wastes to be disposed of to landfills. As a supplement to the Plan, by separate agreements, the District has undertaken to provide waste disposal to municipalities outside the boundaries of the Regional District, viz., Pitt Meadows, Maple Ridge, City of Langley, Township of Langley, Matsqui and Abbotsford, to a landfill which is to be established at Cache Creek.

The long-term and ongoing role of the District solid waste function is to provide environmentally sound and cost effective waste disposal services in accordance with the Waste Management Act and the Greater Vancouver Sewerage and Drainage District Act.

1989 Short Term Objectives

From 1988 -

- Complete facilities for the Cache Creek Landfill, viz., landfill infrastructure at Cache Creek, Matsqui Transfer Station and waste transfer stations in Township of Langley and Maple Ridge for receipt of resident-delivered waste.

- Expand facilities to reduce the volume of wood waste going to landfills and being burned (ongoing).

- Continue with studies, re fly and bottom ash utilization and disposal (ongoing).

- Select a qualified consultant to develop a strategic recycling Plan for the Region. The need for this study became apparent, in part, because of the high costs recently tendered for the proposed glass depot project.

- Establish the Surrey Residential Waste Transfer Station.

- In cooperation with the Ministry of Environment and others, continue with the study to find a long-term solution for the disposal of broken pavement, demolition and land clearing wastes produced in the Region.

New for 1989

- Establish, or foster the establishment by others, of a program for managing the disposal of special wastes generated by homeowners and small quantity generators of special wastes.
- Establish, or foster the establishment by others, of a program to provide for disposal in an environmentally satisfactory way of biomedical wastes generated in the Region.
- Commence the establishment of a source control program to control the types of waste disposed of to the municipal waste system.
- Establish, or foster the establishment by others, of programs to deal with problem wastes, viz., asbestos, dead animals, inert industrial sludges, etc.
- Establish a turbo-generator or other energy utilization system to use the steam produced by the Burnaby Incinerator in excess of that which can be used by Paperboard Industries.
- Establish a program for recovery and utilization of gas from the Coquitlam Landfill.

1989 Capital Program

The 1989 Capital Program includes work carried over from 1988, viz., completion of minor deficiencies at the Burnaby RIP, and construction of the Surrey Residential Transfer Station (RTS) and new works planned for 1989, notably, a turbo-generator and switch gear for utilization of the excess steam produced at the Burnaby Incinerator, a gas collection system at Coquitlam Landfill, and miscellaneous solid waste studies. The District could undertake new waste disposal responsibilities, depending on the findings of the studies and the Board's decision as to the role to be played by the District. Examples of new responsibilities which might be undertaken include: provision of a system for receiving and disposing of special wastes generated by homeowners, provision of an environmentally safe biomedical waste disposal system, programs to deal with problem wastes such as asbestos, dead animals, batteries, etc.

Research and Development

The 1988 Solid Waste budget recognized the need for a budget to cover the costs of research and development for waste disposal problems of a general nature which are referred to the District for resolution, viz., biomedical waste study, disposal of household hazardous waste, disposal of gypsum waste, new technology acquisition, etc. All of the aforesaid issues are of regional interest and benefit, and accordingly the costs incurred in respect of them should be borne by all members of the District. As for 1988, a budget of $50,000 has been provided to cover the cost of like activities in 1989.

Regional Rate

The Regional Rate for waste disposal reflects all of the costs for operation of facilities, equipment replacement and debt retirement for all District facilities, including the like costs for the District's share of usage of facilities operated under the Plan by Vancouver and Surrey, less income from sale of energy and rents. Thus, the Regional rate does not reflect the cost to receive, handle and dispose of waste via a particular facility, but rather the average cost of providing and operating all facilities.

The recommended Regional rate for 1989 is $43.50/tonne. In the 1988 budget it was anticipated that the 1989 Regional rate would be about $40/tonne. All rates presented in the 1988 budget were in terms of 1988 dollars, thus allowing 4 percent for inflation, the aforesaid rate of $40/tonne becomes $41.60 in terms of 1989 dollars.

The proposed 1989 rate of $43.50/tonne reflects slightly higher costs than initially expected on some small items (internal waste transfer and ash disposal) but the main item contributing to the rate increase is the reduction of expected revenues from sale and utilization of steam produced by the Burnaby Incinerator. In order to maximize this revenue stream, the District is working closely with Paperboard Industries. Also, District staff have undertaken discussions with B.C. Hydro and Power Authority to explore power generation from the excess steam. Looking ahead to future years, if the rate of borrowing remains at 10 percent per annum, if inflation is 4 percent per annum and if energy rates do not decline from their present level, the actual rates in both 1990 and 1991 (as opposed to rates at a 1989 dollars base) are preliminarily estimated to be $46/tonne.

Schedule 11

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Provisional Revenue & Expenditure Budget
Solid Waste Disposal
By Program
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
User charges	$18,643,000	$17,221,605	$29,893,500	
Steam sales	2,350,000	1,090,000	2,450,000	
Rental revenue	142,000	106,500	106,500	
Balance from previous year	1,187,700	1,187,700	(135,107)	
	22,322,700	19,605,805	$32,314,893	
Expenditures				
Refuse incinerator				
Operating costs	6,228,570	4,511,194	8,247,604	
Debt charges	3,369,334	2,992,534	6,308,146	
Resource recovery, transfer & landfill operations	12,443,332	11,921,766	17,120,523	
	22,041,236	19,425,494	31,676,273	
Administration	313,520	315,418	638,620	
Total Expenditure	22,354,756	19,740,912	$32,314,893	
Surplus carried to following year	$ (32,056)	$ (135,107)		

Schedule 12

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Revenue & Expenditure Budget
Solid Waste Disposal
By Object of Expenditure
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 302,221	$ 248,843	$ 381,990	
Contract services	15,666,000	13,501,708	20,777,200	
Royalties	241,000	252,460	345,800	
Board vehicles & mileage	9,200	9,320	25,500	
Consultants	47,500	68,926	136,000	
Other services & supplies	414,570	589,196	969,000	
Net amount payable to District of North Vancouver re North Shore Baling Station	142,796			
Central administrative services allocated	10,800	17,911	89,500	
Indirect departmental costs	128,600	143,064	211,335	
Provision for equipment replacement	75,000	387,501	686,000	
Port Mann landfill	964,000	964,000	1,275,000	
Air pollution monitoring	92,900	92,900	216,000	
	18,094,587	16,275,829	25,113,325	
Debt charges	4,260,169	3,465,083	7,201,568	
	$22,354,756	$19,740,912	$32,314,893	

Schedule 13(a)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Plan Management & Administration
Revenue & Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$211,520	$173,328	$345,120	
Board vehicles & mileage		1,600		
Consultants		20,000		
Other services & supplies	10,000	2,000		
Central administrative services allocated		17,600	89,500	
Indirect departmental costs	92,000	100,890	204,000	
	313,520	315,418	638,620	
Debt charges				
	$313,520	$315,418	$638,620	

Schedule 13(b)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Refuse Incinerator
Summary by Object of Expenditure
Revenue & Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 5,670	$	$ 9,104	
Contract services	5,795,000	3,945,107	7,220,000	
Royalties		80,000	80,000	
Board vehicles & mileage		2,000	2,000	
Consultants	25,000	27,088	100,000	
Other services & supplies	310,000	364,099	620,500	
Air pollution monitoring	92,900	92,900	216,000	
	6,228,570	4,511,194	8,247,604	
Debt charges	3,369,334	2,992,534	6,308,146	
	$9,597,904	$7,503,728	$14,555,750	

Schedule 13(c)

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Resource Recovery, Transfer & Landfill Operations
Summary by Object of Expenditure
Revenue & Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benfits	$ 85,031	$ 75,515	$ 27,765	
Contract services	9,871,000	9,556,601	13,557,200	
Royalties	241,000	172,460	265,800	
Board vehicles & mileage	9,200	5,720	23,500	
Consultants	22,500	21,838	36,000	
Other services & supplies	94,570	223,408	348,500	
Net amount payable to District of North Vancouver re Baling Station	142,796			
Central administrative services allocated	10,800			
Indirect departmental costs	36,600	42,174	7,337	
Provision for equipment replacement	75,000	387,501	686,000	
Port Mann landfill	964,000	964,000	1,275,000	
	11,552,497	11,449,217	16,227,102	
Debt charges	890,835	472,549	893,421	
	$12,443,332	$11,921,766	$17,120,523	

Schedule 14

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Assessed Values Taxable by Rate for Regional Hospital District Purposes for 1988

	1987 Total	1988 Total	%
Vancouver Sewerage Area			
Burnaby	$ 278,926,038	$ 288,546,408	7.72481
Richmond	53,535,294	54,514,159	1.45942
University Endowment Lands	18,493,093	18,505,179	.49542
Vancouver	3,329,149,255	3,373,750,829	90.32035
	$3,680,103,680	$3,735,316,575	100.00000
Fraser Sewerage Area			
General Facilities			
Burnaby	$ 665,400,356	$ 681,862,042	22.12128
Coquitlam	327,949,212	344,678,633	11.18222
Delta	352,877,713	363,089,702	11.77952
Langley (City)	81,281,094	84,761,101	2.74986
Langley (District)	145,728,959	153,342,313	4.97480
Maple Ridge	110,984,781	113,348,877	3.67731
New Westminster	205,355,241	207,125,028	6.71964
Pitt Meadows	18,587,938	18,815,791	.61043
Port Coquitlam	120,420,591	127,349,787	4.13154
Port Moody	77,880,768	87,127,241	2.82662
Richmond	16,817,766	16,813,690	.54548
Surrey	743,519,482	787,197,676	25.53862
Vancouver	33,025,589	31,040,209	1.00702
White Rock	63,127,997	65,829,097	2.13566
	$2,962,957,487	$3,082,381,187	100.00000
Maple Ridge/Pitt Meadows Facilities			
Maple Ridge	$ 110,984,781	$ 113,348,877	85.76337
Pitt Meadows	18,587,938	18,815,791	14.23663
	$ 129,572,719	$ 132,164,668	100.00000
North Shore Sewerage Area			
North Vancouver - City	$ 256,488,838	$ 252,375,690	26.14328
North Vancouver - District	394,549,031	394,189,321	40.83358
West Vancouver	310,115,462	318,790,865	33.02314
	$ 961,153,331	$ 965,355,876	100.00000
Lulu Island West Sewerage Area			
Richmond			100.00000
Still Creek-Brunette River Drainage Area			
Burnaby	$ 594,093,737	$ 631,349,483	72.65458
Coquitlam	61,919,501	61,763,425	7.10763
New Westminster	13,019,781	12,993,580	1.49527
Port Moody	4,594,407	4,599,360	.52929
Vancouver	157,686,243	158,268,272	18.21323
	$ 831,313,669	$ 868,974,120	100.00000

Schedule 14
Continued

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Assessed Values Taxable by Rate for Regional Hospital District Purposes for 1988

	1987 Total	1988 Total	%
Byrne Road Drainage Area			
Burnaby	$ 189,720,069	$ 194,474,914	99.76547
New Westminster	450,655	457,170	.23453
	$ 190,170,724	$ 194,932,084	100.00000
Kyle Street Drainage Area			
Coquitlam	$ 5,944,838	$ 5,937,021	46.85715
Port Moody	7,035,817	6,733,450	53.14285
	$ 12,980,655	$ 12,670,471	100.00000
William Street Drainage Area			
Coquitlam	$ 4,447,824	$ 4,451,587	40.27535
Port Moody	6,485,136	6,601,296	59.72465
	$ 10,932,960	$ 11,052,883	100.00000
University Drainage Area			
University Endowment Lands			100.00000
Schoolhouse Creek Drainage Area			
Coquitlam	$ 13,428,915	$ 13,572,795	48.73134
Port Moody	14,616,022	14,279,494	51.26866
	$ 28,044,937	$ 27,852,289	100.00000
U.E.L. South Musqueam Drainage Area			
Vancouver			100.00000
Lower Mainland Solid Waste Disposal Plan			
Burnaby	$ 944,326,394	$ 970,408,450	11.81572
Coquitlam	329,328,494	346,216,822	4.21555
Delta	402,162,082	407,427,941	4.96086
New Westminster	205,355,241	207,125,028	2.52196
North Vancouver (City)	256,488,838	252,375,690	3.07293
North Vancouver (District)	397,896,089	397,544,879	4.84052
Port Coquitlam	121,099,055	128,072,557	1.55942
Port Moody	77,880,768	87,127,241	1.06086
Richmond	767,424,854	797,031,132	9.70468
Surrey	766,710,336	809,334,170	9.85448
University Endowment Lands	18,493,093	18,505,179	.22532
Vancouver	3,362,174,843	3,404,791,038	41.45683
West Vancouver	312,372,308	321,067,751	3.90933
White Rock	62,519,773	65,829,097	.80154
	$8,024,232,168	$8,212,856,975	100.00000

Schedule 14
Continued

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Assessed Values Taxable by Rate for Regional Hospital District Purposes for 1988

	1987 Total	1988 Total	%
Total Assessed Values			
Burnaby	$ 944,326,394	$ 970,408,450	11.18113
Coquitlam	329,328,494	346,216,822	3.98914
Delta	402,162,082	407,427,941	4.69442
Langley (City)	81,281,094	84,761,101	.97662
Langley (District)	196,947,389	206,195,444	2.37580
Maple Ridge	138,559,525	144,995,506	1.67065
New Westminster	205,355,241	207,125,028	2.38651
North Vancouver (City)	256,488,838	252,375,690	2.90789
North Vancouver (District)	397,896,089	397,544,879	4.58055
Pitt Meadows	29,181,394	30,177,344	.34771
Port Coquitlam	120,862,226	128,072,557	1.47566
Port Moody	77,880,768	87,127,241	1.00389
Richmond	767,424,854	797,031,132	9.18346
Surrey	762,407,747	809,334,170	9.32522
University Endowment Lands	18,493,093	18,505,179	.21322
Vancouver	3,362,174,843	3,404,791,038	39.23027
West Vancouver	312,372,308	321,067,751	3.69937
White Rock	62,519,773	65,829,097	.75849
	$8,465,662,152	$8,678,986,370	100.00000

Greater Vancouver Regional Hospital District
4330 Kingsway, Burnaby, British Columbia, Canada V5H 4G8
Telephone (604) 432-6400

TO: Board of Directors

FROM: Secretary Treasurer

RE: 1989 Provisional Budget

DATE: November 23, 1988

The Greater Vancouver Regional Hospital District 1989 Provisional Budget is presented for your consideration.

1988 expenditures are $715,903 (1.1%) less than budget due mostly to capital expenditures being less than projected.

Provincial government grants are down accordingly, resulting in a net surplus of $274,146 carried forward to 1989.

1989 capital expenditures are estimated at $70,264,000, up considerably with major expansions underway at St. Paul's and Vancouver General.

Debt charges will increase by 15.5% due to increased capital expenditures and debt charges of $3,557,652 assumed from the Central Fraser Valley Regional Hospital District with respect to Langley Memorial Hospital. These assumed debt charges are payable by the City and District of Langley.

Debt charges will be reduced in the final budget when the surplus from certified sinking fund debenture issues is determined by the Province.

Municipal tax requisitions will increase $5,593,117 (19.1%) of which $1,576,068 (5.4%) is for debt assumed on behalf of Langley City and Township. The five-year capital expenditure program projected the 1989 tax requisition at $34,971,000.

Members' tax requisitions have increased only moderately over the past two years due to lower capital expenditures and significant sinking fund surpluses.

1989	$34,898,636
1988	$29,305,519
1987	$28,879,713
1986	$29,350,942

The impact of the Hospital District tax requisition on the 1988 tax base is as follows:

Total tax requisition	$34,898,636
Less: Debt assumed chargeable to the City and Township of Langley	(1,576,068)
Langley City and Township contribution to debt incurred subsequent to 1988 (3.21% of $3,795,540)	(121,837)
	33,200,731
Estimated increase in assessment due to new development (3%)	(996,213)
Portion of 1989 tax requisition applicable to 1988 tax base	32,204,518
1988 tax requisition	29,305,519
Increase on 1988 tax base	$ 2,898,999
% Increase	9.9%

RECOMMENDATION

That the Hospital District Board approve the 1989 Provisional Budget for the Greater Vancouver Regional Hospital District.

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Provisional Revenue and Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Revenue				
Members' tax requisitions	$29,305,519	$29,305,519	$34,898,636	+19.1
Provincial Government Grants	32,397,404	31,955,645	36,981,399	+14.1
Share of grants in lieu of taxes	520,000	520,000	528,000	+ 1.5
Surplus from previous year	938,261	938,263	274,146	
Total Revenue	$63,161,184	$62,719,427	$72,682,181	+15.1
Expenditure				
Debt charges on capital debt (Schedule 1)	$61,059,793	$60,257,908	$70,535,013	+15.5
Provision for expenditure under Sections 20(2) & 20(5)				
Advisory Committee expense	6,000	6,000	6,000	
Contribution to capital funds for grants to hospitals (net)	2,112,245	2,112,245	2,112,245	
Interest on borrowing pending receipt of revenues (net)	(16,854)	69,128	28,923	
	2,101,391	2,187,373	2,147,168	
Total Expenditure	$63,161,184	$62,445,281	$72,682,181	+15.1
Surplus carried to following year		$ 274,146		

Schedule 1

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Summary of Debt Charges on Capital Debt

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget		
			Principal	Interest	Total
Debenture Debt (Schedule 2)	$61,113,524	$61,362,918	$11,489,384	$52,096,107	$63,585,491
Amortization of Debenture discount				55,000	55,000
Debenture Issuing Expense	67,163	50,000		87,500	87,500
Proposed Debenture Issues	1,375,000		474,000	2,795,000	3,269,000
Temporary Borrowing	756,100	1,054,073		1,298,700	1,298,700
	63,311,787	62,466,991	11,963,384	56,332,307	68,295,691
Debt assumed re Langley Memorial Hospital					
Existing debenture debt			525,705	2,347,813	2,873,518
Proposed debenture issues			41,800	209,000	250,800
Temporary borrowing			383,334	50,000	433,334
			950,839	2,606,813	3,557,652
	63,311,787	62,466,991	$12,914,223	$58,939,120	71,853,343
Less: Sinking Funds certified	(994,994)	(987,723)			
Less: Recoverable from parking lot - net operations (Schedule 3)	(1,257,000)	(1,221,360)			(1,318,330)
	$61,059,793	$60,257,908			$70,535,013

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Debt Charges on Debenture Debt

Issue No.	Maturity Date	Interest Rate	Principal Amount	Total Payments due in 1989	
				Principal	Interest
24	Apr. 9, 1994	7.61%	$ 1,300,000	$ 35,347	$ 98,930
25	May 10, 1994	8.01%	1,700,000	46,223	136,170
26	Aug. 9, 1994	9.05%	2,500,000	67,975	226,250
27	Apr. 9, 1995	8.21%	3,200,000	87,008	262,720
28	May 9, 1995	8.65%	3,140,000	85,377	271,610
29	Jul. 7, 1995	8.80%	3,000,000	81,570	264,000
30	Sep. 9, 1995	9.16%	3,000,000	81,570	274,800
31	Dec. 10, 1995	8.95%	4,200,000	114,198	375,900
32	Feb. 9, 1996	9.07%	8,000,000	217,520	725,600
33	Apr. 9, 1996	9.03%	8,000,000	217,520	722,400
34	May 7, 1996	9.04%	5,000,000	135,950	452,000
35	Jun. 7, 1996	9.00%	7,000,000	190,330	630,000
36	Jul. 9, 1996	8.97%	3,000,000	81,570	269,100
37	Nov. 10, 1996	9.25%	10,000,000	271,900	925,000
38	Jan. 10, 1997	9.02%	5,000,000	121,950	451,000
39	Apr. 7, 1997	9.03%	12,000,000	292,680	1,083,600
40	May 10, 1997	9.22%	3,500,000	85,365	322,700
41	Jul. 8, 1997	9.06%	4,000,000	97,560	362,400
42	Aug. 10, 1997	9.00%	3,000,000	73,170	270,000
43	Oct. 7, 1997	8.77%	5,000,000	121,950	438,500
44	Dec. 9, 1997	8.98%	7,000,000	170,730	628,600
45	Mar. 10, 1998	9.37%	7,000,000	170,730	655,900
46	Jun. 9, 1998	9.41%	5,000,000	121,950	470,500
47	Aug. 10, 1998	9.49%	7,000,000	170,730	664,300
48	Sep. 8, 1998	9.36%	5,000,000	121,950	468,000
49	Nov. 10, 1998	9.46%	10,000,000	243,900	946,000
50	Mar. 9, 1999	10.16%	6,500,000	158,535	660,400
51	Apr. 10, 1999	10.26%	6,000,000	146,340	615,600
52	Jul. 10, 1999	10.02%	6,000,000	146,340	601,200
53	Aug. 10, 1999	9.98%	13,000,000	317,070	1,297,400

Schedule 2
(continued)

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Debt Charges on Debenture Debt

Issue No.	Maturity Date	Interest Rate	Principal Amount	Total Payments due in 1989	
				Principal	Interest
54	Nov. 9, 1999	10.68%	$ 6,000,000	$ 146,340	$ 640,800
55	Apr. 10, 2000	13.39%	5,000,000	121,950	669,500
56	Jun. 10, 2000	12.01%	6,000,000	146,340	720,600
57	Aug. 8, 2000	11.61%	8,000,000	195,120	928,800
58	Oct. 10, 2000	12.50%	4,000,000	97,560	500,000
59	Mar. 10, 2001	13.13%	5,000,000	109,260	656,500
60	Apr. 10, 2001	13.66%	9,000,000	196,668	1,229,400
61	May 8, 2001	13.69%	9,000,000	196,668	1,232,100
62	Jun. 10, 2001	15.69%	5,000,000	109,260	784,500
63	Aug. 10, 2001	15.31%	14,000,000	305,928	2,143,400
64	Oct. 9, 2001	17.0 %	5,000,000	109,260	850,000
65	Nov. 10, 2001	17.51%	5,000,000	109,260	875,500
66	Dec. 10, 2001	15.93%	5,000,000	109,260	796,500
67	Jan. 8, 2002	14.51%	3,675,000	80,306	533,243
68	Feb. 10, 2002	15.5 %	4,000,000	87,408	620,000
69	Mar. 10, 2002	16.1 %	6,000,000	131,112	966,000
70	Apr. 8, 2002	15.12%	10,000,000	218,520	1,512,000
71	May 10, 2002	15.25%	9,000,000	196,668	1,372,500
72	June 10, 2002	14.96%	7,000,000	152,964	1,047,200
73	July 9, 2002	15.38%	10,000,000	218,520	1,538,000
74	Oct. 8, 2002	14.16%	6,000,000	131,112	849,600
75	Nov. 10, 2002	13.43%	4,000,000	87,408	537,200
76	Jan. 4, 2003	12.14%	5,000,000	109,260	607,000
77	Apr. 5, 2003	11.59%	7,000,000	152,965	811,300
78	May 2, 2003	11.53%	4,000,000	87,408	461,200
79	June 1, 2003	10.92%	4,000,000	87,408	436,800
80	Aug. 2, 2003	11.51%	5,000,000	109,260	575,500
81	Sept. 2, 2003	12.08%	5,000,000	109,260	604,000
82	Nov. 10, 2003	11.65%	5,000,000	109,260	582,500
83	Dec. 1, 2003	11.79%	3,500,000	76,482	412,650

Schedule 2
(continued)

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Debt Charges on Debenture Debt

Issue No.	Maturity Date	Interest Rate	Principal Amount	Total Payments due in 1989	
				Principal	Interest
84	Mar. 1, 2004	12.13%	$ 12,000,000	$ 262,224	$ 1,455,600
85	Apr. 2, 2004	12.60%	5,000,000	109,260	630,000
86	June 1, 2004	13.70%	5,000,000	109,260	685,000
87	July 3, 2004	13.80%	8,000,000	174,816	1,104,000
88	Sept. 4, 2004	13.20%	5,000,000	109,260	660,000
89	Jan. 4, 2005	12.08%	6,000,000	131,112	724,800
90	May 3, 2005	12.15%	5,000,000	109,260	607,500
91	May 9, 2006	9.59%	10,064,000	219,919	965,137
92	Aug. 8, 2006	9.50%	5,000,000	109,260	475,000
93	Apr. 10, 2007	9.12%	6,100,000	133,296	556,320
94	Sep. 10, 2007	10.42%	3,000,000	65,556	312,600
95	Nov. 10, 1997	10.25%	7,970,000	549,930	816,925
96	Mar. 3, 1993	9.25%	730,000	124,433	67,525
97	Apr. 8, 2008	9.62%	5,775,000	126,195	555,555
98	July 8, 2008	10.15%	7,280,000	159,083	738,920
99	Aug. 10, 2008	10.06%	1,800,000	39,334	181,080
100	Oct. 7, 2008	10.39%	2,465,000	53,865	256,114
101	Nov. 14, 1993	7.69%	3,110,000	530,118	239,158
			$451,509,000	$11,489,384	$52,096,107

Schedule 3

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Parking Lot Operations
Summary

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Legal	$	$	$ 11,000	
Insurance	21,375	21,065	20,825	
Other services	36,725	48,225	67,850	
Repairs & maintenance	114,200	127,700	167,150	
Janitor & gardening	51,760	51,760	38,400	
Security	132,500	132,500	134,500	
Parking lot attendants	425,500	432,000	465,140	
Licences, permits, business taxes	2,340	2,340	2,325	
Equipment purchases & capital improvements	59,500	66,800	53,000	
Outside maintenance			23,900	
Materials & supplies	34,400	34,400	33,480	
Electricity	140,600	140,600	141,000	
Management fees	36,300	36,300	31,500	
Commissions	72,450	72,450	100,250	
General expenses (Sch.3(i))	42,350	39,500	41,850	
Total Expenditures	1,170,000	1,205,640	1,332,170	
Revenue	(2,427,000)	(2,427,000)	(2,650,500)	
Net Income	$(1,257,000)	$(1,221,360)	$(1,318,330)	
Number of stalls			5,281	

Schedule 3(a)

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Burnaby - Parking Lot Operation

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Legal	$	$	$ 1,500	
Insurance	2,580	2,300	2,300	
Other services	9,100	9,100	6,700	
Repairs & maintenance	11,200	11,200	11,400	
Janitor & gardening	4,680	4,680	5,200	
Security	17,000	17,000	18,000	
Parking lot attendants	47,000	47,000	49,500	
Licences, permits, business taxes	115	115	125	
Equipment purchases & capital improvements	6,000	6,000	5,000	
Outside maintenance			3,000	
Materials & supplies	5,000	5,000	5,500	
Electricity	14,000	14,000	14,000	
Management fees	4,800	4,800	4,800	
Commissions	12,750	12,750	14,500	
General expenses (Sch.3(i))	4,900	4,500	4,765	
Total Expenditures	139,125	138,445	146,290	
Revenue	(275,000)	(275,000)	(275,500)	
Net Income	$(135,875)	$(136,555)	$(129,210)	
Number of stalls			535	

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

St. Paul's - Parking Lot Operation

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Insurance	$ 1,120	$ 1,150	$ 1,170	
Other services	1,250	1,250	1,250	
Repairs & maintenance	3,000	3,000	7,200	
Janitor & gardening	2,000	2,000	2,650	
Security	8,000	8,000	8,000	
Parking lot attendants	55,000	61,500	66,500	
Licences & permits	50	50	50	
Equipment purchases & capital improvements	10,000	10,000	10,000	
Outside maintenance			600	
Materials & supplies	2,500	2,500	3,000	
Electricity	25,000	25,000	25,000	
Management fees	3,600	3,600	3,600	
Commissions	500	500	16,800	
General expenses (Sch.3(i))	4,200	3,900	6,150	
Total Expenditures	116,220	122,450	151,970	
Revenue	(240,000)	(240,000)	(403,200)	
Net Income	$(123,780)	$(117,550)	$(251,230)	
Number of stalls			300	

Schedule 3(c)

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Royal Columbian - Parking Lot Operation

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Insurance	$ 2,280	$ 2,360	$ 2,390	
Other services	5,600	5,600	6,250	
Repairs & maintenance	5,000	5,000	7,200	
Janitor & gardening	2,500	2,500	2,100	
Security	20,000	20,000	21,000	
Parking lot attendants	52,000	52,000	62,600	
Equipment purchases & capital improvements	7,500	7,500	1,000	
Outside maintenance			3,000	
Materials & supplies	3,000	3,000	3,200	
Electricity	22,000	22,000	23,000	
Management fees	4,800	4,800	4,800	
Commissions	16,800	16,800	19,000	
General expenses (Sch.3(i))	6,300	5,200	5,600	
Total Expenditures	147,780	146,760	161,140	
Revenue	(360,000)	(360,000)	(370,500)	
Net Income	$(212,220)	$(213,240)	$(209,360)	
Number of stalls			410	

Schedule 3(d)

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Lions Gate - Parking Lot Operation

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Legal	$	$	$ 5,000	
Insurance	2,715	2,765	2,810	
Other services	6,100	17,600	40,600	
Repairs & maintenance	40,000	50,000	46,000	
Janitor & gardening	4,680	4,680	3,000	
Security	20,000	20,000	20,000	
Parking lot attendants	45,000	45,000	54,000	
Licences, permits, business taxes	2,000	2,000	2,000	
Equipmente purchases & capital improvements	12,000	19,300	4,000	
Outside maintenance			3,500	
Materials & supplies	4,700	4,700	4,000	
Electricity	25,000	25,000	25,000	
Management fees	4,800	4,800	4,800	
Commissions	8,050	8,050	8,250	
General expenses (Sch.3(i))	3,800	3,500	3,600	
Total Expenditures	178,845	207,395	226,560	
Revenue	(215,000)	(215,000)	(220,000)	
Net Income	$ (36,155)	$ (7,605)	$ 6,560	
Number of stalls			620	

Schedule 3(e)

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

King Edward Campus - Parking Lot Operation

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Insurance	$ 465	$ 465		
Other services	500	500		
Repairs & maintenance	1,000	1,000		
Janitor & gardening	1,200	1,200		
Parking lot attendants	18,000	18,000		
Licences, permits, business taxes	50	50		
Materials & supplies	2,000	2,000		
Electricity	1,600	1,600		
Management fees	4,800	4,800		
General expenses (Sch.3(i))	1,450	1,450		
Total Expenditures	31,065	31,065		
Revenue	(82,000)	(82,000)		
Net Income	$(50,935)	$(50,935)		
Number of stalls			0	

Lot closing November 1988

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Vancouver General - Parkade Operations

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Legal	$	$	$ 4,000	
Insurance	7,950	7,700	7,765	
Other services	6,100	6,100	7,350	
Repairs & maintenance	17,500	21,000	30,650	
Janitor & gardening	28,000	28,000	16,300	
Security	36,000	36,000	36,000	
Parking lot attendants	82,000	82,000	96,240	
Licences, permits, business taxes	100	100	100	
Equipment purchases & capital improvements	1,000	1,000	8,000	
Outside maintenance			3,800	
Materials & supplies	6,200	6,200	3,630	
Electricity	33,000	33,000	33,000	
Management fees	4,800	4,800	4,800	
Commissions	23,750	23,750	30,000	
General expenses (Sch.3(i))	10,800	10,300	11,235	
Total Expenditures	257,200	259,950	292,870	
Revenue	(610,000)	(610,000)	(720,000)	
Net Income	$(352,800)	$(350,050)	$(427,130)	
Number of stalls			1,350	

Schedule 3(g)

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Children's/Grace - Parking Lot Operation

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Legal	$	$	$ 500	
Insurance	3,175	3,350	3,400	
Other services	5,075	5,075	3,700	
Repairs & maintenance	35,000	35,000	10,200	
Janitor & gardening	6,900	6,900	7,350	
Security	27,000	27,000	27,000	
Parking lot attendants	126,500	126,500	135,400	
Licences, permits, business taxes	25	25	50	
Equipment purchases & capital improvements	20,000	20,000	75,000	
Outside maintenance			7,000	
Materials & supplies	10,000	10,000	10,950	
Electricity	17,000	17,000	18,000	
Management fees	2,700	2,700	2,700	
Commissions	9,000	9,000	9,000	
General expenses (Sch.3(i))	10,200	9,950	9,700	
Total Expenditures	272,575	272,500	319,950	
Revenue	(605,000)	(605,000)	(610,000)	
Net Income	$(332,425)	$(332,500)	$(290,050)	
Number of stalls			1,791	

Schedule 3(h)

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

Eagle Ridge - Parking Lot Operation

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Insurance	$ 1,090	$ 975	$ 990	
Other services	3,000	3,000	2,000	
Repairs & maintenance	1,500	1,500	4,500	
Janitor & gardening	1,800	1,800	1,800	
Security	4,500	4,500	4,500	
Parking lot attendants			900	
Equipment purchases & capital improvements	3,000	3,000		
Outside maintenance			3,000	
Materials & supplies	1,000	1,000	3,200	
Electricity	3,000	3,000	3,000	
Management fees	6,000	6,000	6,000	
Commissions	1,600	1,600	2,700	
General expenses (Sch.3(i))	700	700	800	
Total Expenditures	27,190	27,075	33,390	
Revenue	(40,000)	(40,000)	(51,300)	
Net Income	$(12,810)	$(12,925)	$(17,910)	
Number of stalls			275	

Schedule 3(i)

GREATER VANCOUVER REGIONAL HOSPITAL DISTRICT

General Expenses

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Travel & mileage	$ 4,750	$ 4,750	$ 4,750	
Courier	100	100	100	
Advertising		100	100	
Legal	500		500	
Other services (warranty)	9,500	6,300	7,500	
Equipment purchases & capital improvements	1,000		1,000	
Materials & supplies	4,000	1,500	1,000	
Management fees	30,000	33,500	33,500	
Printing	100	500	500	
Corporate Services	2,600	2,600	2,600	
Total Expenditures	52,550	49,350	51,550	
Less: Allocations to parking lot operations**	(42,350)	(39,400)	(41,850)	
Allocated to Shaughnessy Hospital*	(10,200)	(9,950)	(9,700)	
	$ 0	$ 0	$ 0	

* Allocated as a cost directly to Shaughnessy Hospital.
** Allocated to each lot according to revenue.

Greater Vancouver Regional District
4330 Kingsway, Burnaby, British Columbia, Canada V5H 4G8

Finance Department

Accounting: 432-6273 • Secretary Treasurer's Office: 432-6250 • Treasury: 432-6252

TO: Board of Directors

FROM: Secretary Treasurer

RE: 1989 Provisional Budget

DATE: November 23, 1988

The Greater Vancouver Regional District 1989 Provisional Budget is presented for your consideration.

1988 Operations

A net surplus of $668,441 is projected for 1989, of which $391,140 is due to increased revenue and $277,301 to decreased expenditure.

1989 Budget

Members' tax requisitions are up $1,205,521 (10.6%) from 1988. The City and Township of Langley will contribute 3.21% of members' tax requisitions for the first time in 1989.

Expenditures are increased $1,566,385 (11.6%) over 1988, of which $210,800 (1.6%) is for the initial costs for the E911 Emergency Telephone System. Appendix "A" summarizes the changes from the 1988 budget.

Appendix "A"

GREATER VANCOUVER REGIONAL DISTRICT

REGIONAL FUNCTIONS
SUMMARY OF CHANGES IN OPERATING COSTS OF 1989 PROVISIONAL BUDGET OVER 1988 FINAL BUDGET

	GENERAL GOVERNMENT	AIR POLLUTION CONTROL	HOSPITAL PLANNING	LABOUR RELATIONS	REGIONAL PARKS	DEVELOPMENT SERVICES	E911 EMERGENCY TELEPHONE SYSTEM	TOTAL
1988 Final Budget	$2,258,856	$1,989,900	$440,540	$1,598,930	$3,219,904	$ 870,000	$	$10,378,130
1988 Extraordinary Items	(673,440)	(120,000)		(20,000)				(813,440)
1989 Base Budget	1,585,416	1,869,900	440,540	1,578,930	3,219,904	870,000		9,564,690
1989 Changes								
Extraordinary Items	645,800	120,000		65,000				830,800
Changes in Level of Service	55,410	165,100		101,700	281,900	261,530		865,640
New Programs	900	64,100					201,300	266,300
Change in Base Budget	(18,400)	126,300	29,329	(41,700)	81,190			176,719
Inflation	60,514	97,600	13,909	61,809	128,548	18,300		380,680
Total 1989 Changes	744,224	573,100	43,238	186,809	491,638	279,830	201,300	2,520,139
1989 Provisional Budget	$2,329,640	$2,443,000	$483,778	$1,765,739	$3,711,542	$1,149,830	$201,300	$12,084,829

GREATER VANCOUVER REGIONAL DISTRICT

Provisional Revenue & Expenditure Budget
Year Ending December 31, 1989

INDEX

	Section	Summary Page
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- General Government Services	A	A1
- Air Pollution Control	B	B6
- Hospital Planning	C	C4
- Labour Relations	D	D5
- Regional Parks	E	E15
- Development Services	F	F3
- E911 Emergency Telephone System	G	G2
- Electoral Areas	H	H1

* * * * * *

GREATER VANCOUVER REGIONAL DISTRICT

Summary
Provisional Revenue and Expenditure Budget
Year Ending December 31, 1989

	Sch	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Revenue					
Members' tax requisitions and recoveries		$11,366,213	$11,368,180	$12,571,734	+10.6
Provincial Government grants		515,000	535,000	599,100	+16.3
Transfer from GVRD functions		18,300	18,300	18,300	
Other revenue					
- General Government		379,000	714,400	374,000	- 1.3
- Ambient Air Gaseous Monitoring		544,300	548,300	618,600	+13.7
- Parks Net Rental Income		169,488	178,895	203,895	+20.3
- Electoral Area - Misc.		15,000	27,153	25,000	+66.7
Surplus from previous year		505,384	513,597	668,441	+33.9
Total Revenue		$13,512,685	$13,903,825	$15,079,070	+11.6
Expenditure					
Regional Functions					
Operating Expenses					
General Government Services	A1	$ 2,258,856	$ 2,202,620	$ 2,329,640	+ 3.1
Air Pollution Control	B6	1,989,900	1,888,400	2,443,000	+22.8
Hospital Planning	C5	440,540	395,705	483,778	+ 9.8
Labour Relations	D5	1,598,930	1,535,788	1,765,739	+10.4
Regional Parks	E15	3,219,904	3,230,034	3,711,542	+15.3
Development Serv.	F3	870,000	870,000	1,149,830	+32.2
E911 Emergency Telephone System	G3			201,300	
		10,378,130	10,122,547	12,084,829	+16.4
Fiscal Services					
Reserve Fund	A1	200,000	200,000		
Equipment Fund				200,000	
Air Pollution Control	B6	116,000	116,000		
Regional Parks	E15	2,311,919	2,311,196	2,230,053	- 3.5
E911 Emergency Telephone System	G3			9,500	
		2,627,919	2,627,196	2,439,553	- 7.2
Total Regional		13,006,049	12,749,743	14,524,382	+11.7
Electoral Areas					
Operating Expenses	H1	308,468	288,842	341,148	+10.6
Fiscal Services	H1	198,168	196,799	213,540	
		506,636	485,641	554,688	+ 9.5
Total Expenditure		$13,512,685	$13,235,384	$15,079,070	+11.6
Surplus carried to following year			$ 668,441		

"A"

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL GOVERNMENT
SUMMARY OF INCREASES IN 1989
EXPENDITURES OVER 1988 FINAL BUDGET

1988 Final Budget			$2,458,856
1988 Extraordinary Items			
Risk Insurance Management Study		$ (40,000)	
Less allocated to other budgets		38,560	
		(1,440)	
Earthquake Preparedness		(100,000)	
Grant to Science World		(572,000)	
			(673,440)
1988 Base Budget			1,785,416
1988 Extraordinary Items			
Retirement of senior staff	$ 58,400		
Temporary Labour for completion of Property Inventory Program	56,900		
Less allocation to other budgets	(114,500)		
	800		
Grant to Science World	572,000		
Earthquake Preparedness	73,000		
		645,800	
New Programs			
Succession Planning	6,000		
Less allocation to other budgets	(5,100)		
		900	
Changes in Level of Service			
Secretariat			
Increased agenda volume	5,500		
Information Services			
Staff costs associated with enhancing public participation and awareness	41,900		
Increased volume - newsletters & Information Booklets	6,000		
	47,900		
Administrative Offices			
Inter-Office Committee	2,410		
Deletion of Development Services participation in Inter-Governmental work	(15,900)		
	(13,490)		
Less allocation to other budgets	9,000		
	(4,490)		

"A"

GENERAL GOVERNMENT (Continued)

Central Administration			
Temporary Help - Library recataloguing	$ 7,000		
Provide access to Library Database	2,700		
	9,700		
Less allocation to other budgets	(8,200)		
	1,500		
Property Services			
Property Inventory Program Software Amortization	7,300		
Less allocation to other budgets	(6,700)		
	600		
Finance			
Increase in Accounting staff to meet increased volumes	37,600		
Payroll Software Amortization	17,000		
Increase Systems development and support	97,200		
Purchasing Management Information System	19,000		
	170,800		
Less allocation to other budgets	(168,800)		
	2,000		
		$ 55,410	
Changes in Base Budget (Net)			
Completion of Program - Transportation of Dangerous Goods Participation	(60,000)		
Decrease in recoveries from Election Services	11,500		
Purchase of Equipment	1,500		
Increase in Contract Services	2,600		
Rent	1,000		
Computer Costs allocated	4,400		
Annualization of staff, merits, etc.	8,700		
CASA	(400)		
Other/Miscellaneous	12,300		
		(18,400)	
Inflation		60,514	
			744,224
1989 Provisional Budget			$2,529,640

GREATER VANCOUVER REGIONAL DISTRICT

Provisional Revenue and Expenditure Budget
General Government Services
Year Ending December 31, 1989

	Sch	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Revenue					
Members' – tax requisitions		$1,731,751	$1,731,751	$1,675,790	– 3.2
– user charges		24,000	24,000	24,000	
Provincial Government grant		40,000	60,000	60,000	
Grants in lieu of taxes		155,000	150,400	150,000	– 3.2
Interest income less sundry financial charges		200,000	540,000	200,000	
Surplus from previous year		308,105	316,319	419,850	+ 36.3
Total Revenue		$2,458,856	$2,822,470	$2,529,640	+ 2.9
Expenditure					
Legislative Services					
Board & Committees	A2	$ 320,850	$ 333,150	$ 331,450	+ 3.3
Secretariat	A4	191,012	198,600	220,410	+ 15.4
Information Services	A8	356,304	373,340	426,880	+ 19.8
		868,166	905,090	978,740	+ 12.7
General Administrative Services					
Administration Offices	A9	281,177	303,680	297,710	+ 5.9
General Administrative Services	A10	141,123	144,830	162,240	+ 15.0
Property Division	A22	15,590	420	10,650	– 31.7
Central Administrative Services	A37	31,800	31,800	35,400	+ 11.3
General Expenses	A39	165,000	133,800	175,900	+ 6.6
		634,690	614,530	681,900	+ 7.4
Other					
Transportation of Dangerous Goods Task Force Participation		60,000	60,000		
Grant to Science World		572,000	572,000	572,000	
Earthquake Preparedness		100,000	27,000	73,000	– 27.0
Mosquito Control		24,000	24,000	24,000	
		756,000	683,000	669,000	– 11.5
Sub-Total		2,258,856	2,202,620	2,329,640	+ 3.1
Fiscal Services					
Contribution to Section 795 Reserve Fund		200,000	200,000		
Contribution to Equipment Fund				200,000	
		200,000	200,000	200,000	
Total Expenditure		$2,458,856	$2,402,620	$2,529,640	+ 2.9
Surplus carried to following year			$ 419,850		

GREATER VANCOUVER REGIONAL DISTRICT

LEGISLATIVE SERVICES

Board & Committees

Purpose

To fulfill the duties and responsibilities of the Regional Board as outlined in the Municipal Act.

Activities or Level of Service

Attending meetings of the Regional Board and its committees for the purpose of formulating Board Policy.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Remuneration	$153,500	$161,900	$163,800	
Provision for equipment replacement	12,600	12,740	12,600	
Travel	5,700	3,700	5,700	
Telephone	3,300	3,160	3,400	
Other expenses	5,150	11,050	5,350	
Rent	140,600	140,600	140,600	
Total Expenditure	$320,850	$333,150	$331,450	

GREATER VANCOUVER REGIONAL DISTRICT

LEGISLATIVE SERVICES

Secretariat

Purpose

To provide secretarial and related administrative services to the Board and its function committees.

To revise and maintain annual voters' lists and to conduct local elections (for GVRD Directors and the Island Trust) in the Region's three Electoral Areas, pursuant to the Municipal Act.

To provide administrative assistance to the Secretary-Treasurer and the Chairman as required.

To assist with administrative services for the GVRD's Electoral Areas as required.

To fulfil statutory responsibilities of Secretary is absence of Secretary-Treasurer.

Activities or Level of Service

To prepare, maintain and preserve the minutes of the Board, its function committees and other committees as specified (e.g. Hospital Advisory Committee).

To prepare and distribute Board and Executive Committee agendas and others as required.

To assist departments and the public with enquiries and research in connection with Board and committee minutes and background documentation.

To administer the processing of bylaws.

To coordinate arrangements for all Board and function committee meetings and other events involving Directors, and to produce regular calendar of same for distribution to Directors and staff.

To coordinate payment of fees to Board Directors.

To update and maintain voters' lists and carry out requirements for the holding of local elections in three electoral areas.

To assist with provision of administrative services, including community liaison for the GVRD's Electoral Areas, especially Electoral Area "C".

To conduct annual Courts of Revision for voters lists and parcel tax rolls.

Review of Prior Year's Objectives

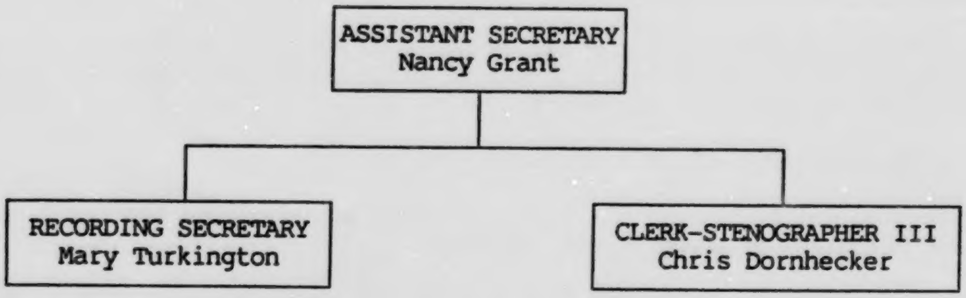
The Secretariat's short-term objectives for 1988 were met. The department continues to increase its role in the complete processing and maintenance of all bylaws, and changes have been instituted toward more streamlined and efficient maintenance and storage of records. The department is also attempting to increase the efficiency of its coordinating function and to streamline guidelines for agenda preparation and follow-up action. The department's responsibilities for Electoral Area administration have been considerably reduced following staff appointments during the year, but some election and other administrative duties remain.

GREATER VANCOUVER REGIONAL DISTRICT

LEGISLATIVE SERVICES

Secretariat

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$121,791	$116,850	$128,700	
Rent	21,700	21,700	21,700	
Mileage	300	300	310	
Travel	600	600	310	
Postage & municipal courier service	21,850	21,850	22,700	
Telephone	2,400	2,400	2,720	
Duplicating & photocopying	12,500	12,500	15,600	
Equipment replacement & maintenance	1,200	1,500	1,510	
Materials & supplies	3,100	6,000	6,200	
Other services	1,900	3,800	1,860	
Central administrative services allocated	8,077	8,100	8,700	
Computer operating costs allocated	7,100	6,300	10,100	
	202,518	201,900	220,410	
Transfer to Electoral Areas	(11,506)	(3,300)		
Total Expenditure	$191,012	$198,600	$220,410	



	APPROVED NUMBERS	ACTUAL
December 31, 1987	3	3
1988 changes	0	0
September 1, 1988	3	3
1989 changes	0	
TOTAL December 31, 1989	3	

GREATER VANCOUVER REGIONAL DISTRICT

LEGISLATIVE SERVICES

Information Services

Purpose

To provide centralized information services for all GVRD departments and activities.

To offer a continuing in-school program, in secondary schools and elementary schools.

To co-ordinate and produce various GVRD publications including information booklets, newsletters, brochures, posters; produce audio-visual productions.

To maintain, display and sell GVRD publications and maps to public.

To co-ordinate and assist with the GVRD's program to promote recycling in the Lower Mainland.

Activities or Level of Service

Handle general enquiries from the public and news media regarding GVRD operations and activities (about 600/700 per month).

Promote the GVRD's regional recycling program, through special events ('Recycling Month'), displays, news releases, audio-visual presentations, etc.

To present a schools program, in both secondary and elementary schools within the region.

To sponsor a secondary schools essay contest and elementary school dinosaur "exercise" on recycling.

To produce various publications including information booklets, brochures (air quality, water, sewer, etc.), the GVRD Annual Report, posters, audio-visual productions, etc.

Prepare and produce regular GVRD information material for internal use (regional and municipal) including BOARD IN BRIEF and RESUMÉ.

Prepare and produce a regular bi-monthly newsletter, for general distribution.

Prepare, produce and distribute news releases, as required; notify news media of GVRD meetings; arrange news conferences or other special media events, as required.

Assist with arrangements for special GVRD meetings and events, such as workshops, public hearings, the opening of projects.

Place newspaper advertisements when requested.

GREATER VANCOUVER REGIONAL DISTRICT

LEGISLATIVE SERVICES

Information Services (Continued)

Activities or Level of Service (Continued)

Take photos for various departments and for GVRD publications, audio- visuals, etc.

Provide support for Parks Department's nature interpretation programs and special parks events.

Maintain various GVRD mailing lists ranging from 20 to over 6,000 names.

Maintain, display and sell GVRD publications to the public.

Review of Prior Year's Activities

Some highlights of the prior year's activities are as follows:

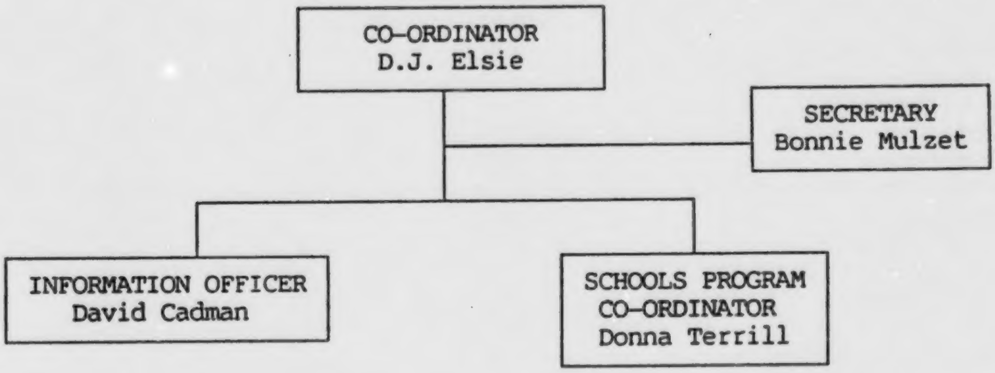
- Production of GVRD Annual Report.
- New 'Livable Region' information booklet produced and distributed (55,000 copies).
- Presentations made to 12,000 students in the schools program.
- 'Recycling Month' promotion successful.
- New sewerage system brochure produced (35,000 copies).
- GVRD newsletter circulation increased to 18,000.
- Approximately 100 news releases distributed to radio, television and newspapers.
- Newsletter produced for Electoral Area "C".
- Successful "Recycle-A-Saurus" contest held in Coquitlam area elementary schools.
- Updated recycling directories produced.
- Phone calls requesting information averaged about 700 per month.

GREATER VANCOUVER REGIONAL DISTRICT

LEGISLATIVE SERVICES

INFORMATION SERVICES DEPARTMENT

ORGANIZATION CHART



	APPROVED NUMBERS	ACTUAL
December 31, 1987	4	3
1988 changes	0	1
September 1, 1988	4	4
1989 changes	0	
TOTAL December 31, 1989	4	

GREATER VANCOUVER REGIONAL DISTRICT

LEGISLATIVE SERVICES

Information Services Department

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$153,850	$167,210	$207,100	
Consultants	25,000	20,000	25,000	
Board vehicles	200	920	200	
Mileage	6,150	6,000	6,400	
Office expenses				
Rent	20,200	20,200	20,200	
Telephone	1,800	1,760	1,910	
Materials and supplies	5,500	11,600	5,800	
Postage	4,150	4,800	5,000	
Duplicating	16,000	20,000	20,800	
Equipment replacement, maintenance & purchases	6,850	7,000	7,600	
Travel	500		1,200 -	
Advertising	500			
Other services	9,700	16,650	12,320	
Central administrative services	11,504	11,500	12,600	
Corporate services allocated	5,400	5,700	5,750	
	267,304	293,340	331,880	
Display system & graphics	10,000		10,000	
Staff newsletter	5,000	5,000	5,000	
Bi-monthly newsletter	40,000	41,000	43,000	
Miscellaneous pamphlets	14,000	14,000	12,000	
GVRD Information booklet	20,000	20,000	25,000	
Total Expenditure	$356,304	$373,340	$426,880	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Administration Offices

Purpose

To administer the affairs of the GVRD and related corporate entities and carry out Board policy.

Activities or Level of Service

This account covers the costs of the offices of the Regional Manager, Secretary-Treasurer, and Chief Engineer. A portion of the costs of the Finance Comptrollers is included here, as their duties and responsibilities cover more than one district. Costs relating to the offices of other Managers are not included in this program; rather they are charged directly to their departmental budgets. Also included in this account is the cost of intergovernmental services provided to the Regional Manager by the Development Services Department.

The cost of this program is allocated to the various corporate entities.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$566,500	$580,500	$653,900	
Board vehicles	13,700	13,700	13,700	
Travel	4,500	4,500	4,500	
Consultants	50,000	50,000	50,000	
Other services	7,400	15,620	14,410	
Postage	3,100	2,700	3,200	
Telephone	6,900	7,000	7,400	
Materials & supplies	5,000	18,200	5,800	
Duplicating	7,600	10,320	11,600	
Equipment replacement & maintenance	11,500	15,600	16,000	
Central administrative services allocated	10,827	9,400	10,900	
Computer operating costs allocated	6,150	5,000	7,000	
Corporate services allocated	4,700	4,900	4,900	
Rent	82,900	82,900	82,900	
	780,777	820,340	886,210	
Less:				
charged to GVWD Administration	(208,000)	(216,180)	(251,000)	
GVS&DD Administration	(232,200)	(240,080)	(275,500)	
GVHC Administration	(59,400)	(60,400)	(62,000)	
Total Expenditure	$281,177	$303,680	$297,710	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Summary

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Central administration [1]	$ 428,773	$ 447,970	$ 463,300	
Personnel A17	389,650	374,540	478,630	
Safety & Security A19	81,200	80,860	87,640	
Total Expenditure	899,623	903,370	1,029,570	
Less charged to:				
Central Administrative Services	296,650	293,640	368,630	
GVWD Administration	112,700	109,400	120,600	
GVS&DD Administration	189,300	189,300	209,400	
GVHC Administration	31,500	27,800	30,050	
GVRD functions	37,300	43,200	43,600	
Hospital parkade operations	1,900	1,500	1,700	
Operations	39,200	41,300	40,700	
Engineering	16,700	17,500	17,900	
Construction	16,900	17,800	17,500	
Quality Control	5,450	5,700	5,750	
Forestry	5,450	5,700	5,750	
Housing Operations	5,450	5,700	5,750	
Total Recoveries	758,500	758,540	867,330	
Net	$ 141,123	$ 144,830	$ 162,240	

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(1) Formerly General Corporate Services

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Central Administration

Long-Term and Ongoing Role

Manage central records and filing systems to ensure efficient and economical use of resources.

Direct a complete range of support services including printing, copying and mail delivery activities.

Maintain a library holding a specialized collection of materials relevant to GVRD and member municipality functions and operations.

Establish and regulate procedures relating to materials management, facilities management and fleet management.

Manage an effective telecommunication system and provide main switchboard and information referral services.

Liaise with Metrotown building management company on building services and facilities, administer the leasing of GVRD space in the Metrotown building and manage the tenancies.

1989 Short-Term Objectives

Monitor the Corporation's telecommunication network to determine possible future requirements and provide a plan for delivery, including cost implications.

Monitor the Corporation's mail and courier services, and investigate alternative methods of seeking improvements at the same or lower cost.

Provide a report, with recommendations, on the current procedures for purchasing general office supplies, and the allocation of those costs to the Departments.

Continue the task of microfilming all Central Files, and some Library material, to provide greater access and quicker retrieval of information.

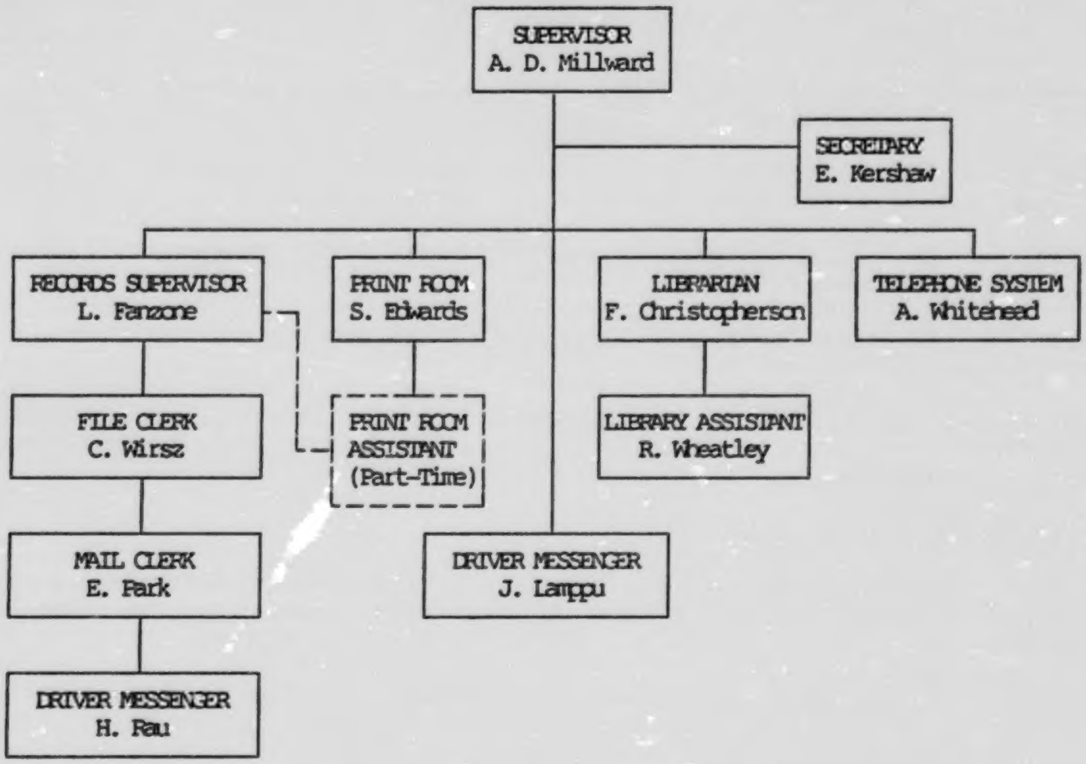
Continue computerization of Library procedures.

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Central Administration

ORGANIZATION CHART



	APPROVED NUMBERS	ACTUAL
December 31, 1987	11	11
1988 changes	0	0
September 1, 1988	11	11
1989 changes	1	======
TOTAL December 31, 1989	12	
	======	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Central Administration

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$281,550	$292,200	$307,490	
Board vehicle & mileage	14,050	14,130	14,020	
Memberships, tuitions, fees	1,350	2,270	2,570	
Consultants	2,500	10,000	3,500	
Travel	1,250	330	1,320	
Rent	61,250	61,300	61,800	
Periodicals	6,550	6,100	6,820	
Postage	2,500	1,780	2,550	
Telephone	4,750	6,000	6,070	
Printing	2,900	3,040	3,930	
Computer costs allocated	7,550	10,400	15,700	
Equipment replacement & maintenance	12,000	10,900	11,750	
Supplies & services	9,250	8,320	11,880	
Central Administrative Services allocated	19,223	19,200	11,900	
Microfilm service	2,100	2,000	2,000	
Total Expenditure	$428,773	$447,970	$463,300	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Personnel Services

Long-Term and Ongoing Role

The Personnel Services Office administers a comprehensive human resource program for the GVRD which includes:

- Recruitment and selection service to department managers and supervisors, including relevant collective agreement interpretation, recruitment skills training, as well as related administrative support.
- Administration of two collective agreements involving active advice and support to management with respect to collective agreement interpretation, performance assessment and employee discipline. In addition, co-ordinates and participates in the negotiation of revised collective agreements and ad hoc GVRDEU bargaining issues.
- A broad ranging employee benefits function, which administers varied benefits entitlements for different employee groups. Further, makes recommendations to management regarding changes to employee benefits and benefit carriers to reflect changing needs of the Corporation and its employees.
- An internal training information resource for management and employees, in addition to ongoing in-house personnel related training.

Objective

To provide effective personnel services for the Corporation by ensuring the timely delivery of collective agreement administration and negotiating support, training services and recruitment and compensation services, in order to attract, retain and maximize the human resource capacity of the GVRD.

Review of 1988 Accomplishments

1. Completed the revision of the GVRD's Training Policy and Training approval procedures with a view towards increased training opportunities for GVRD employees.

2. Introduced an Employee Assistance Program to the GVRD including various stages of orientation for supervisory staff, shop stewards, E.A.P. representatives and employees.

3. Employee Recruitment services were again very active due in part to expanding departmental service mandates as well as a presently high rate of employee retirement. To October 31, 1988 the following employees have been recruited:

Regular Full Time:	92
Temporary Full Time:	131
Auxiliary:	1

4. Through extended negotiations with the GVRDEU, a new 3 year Collective Agreement has been negotiated providing for some innovative changes in employee compensation and benefits including:

   - the elimination of paid-out accumulated sick-leave and the corresponding introduction of improved short term and long term sick leave protection for union employees through the duration of this agreement,

   - the elimination of former employer costs associated with employee travel time to work sites,

   - improved life insurance protection for employees and their dependents.

5. With the development of a Corporate Training Policy in 1987, personnel placed particular emphasis on co-ordinating and offering a variety of broad based skill development courses. This new undertaking is expected to become a more central aspect of the Personnel Services role. To date, the following programs have been broadly offered:

   - Word Processing Skills
   - Writing Skills
   - Quit Smoking
   - IBM P.C. Training

6. Continued progress was made in the Employee Involvement Program. Supervisory and Involvement training and follow-up was expanded in 1988, with employee task groups developed to examine issues of common interest and make recommendations.

1989 Short-Term Objectives

- Increased emphasis by the GVRD on employee training will require Personnel to provide a greater level of service in this area, through various means including:
  - Personnel group services
  - Co-ordinating consulting training services both on an in-house and external basis.
  - Making a greater amount of relevant training information available to employees and supervisors.

- Insuring that the introduction of substantially changed employee benefits, particularly for GVRDEU members is well co-ordinated and introduced based on a sound understanding of the benefits being received.

- Development of a more effective new employee orientation program with improved Corporate information material such as an employee handbook.

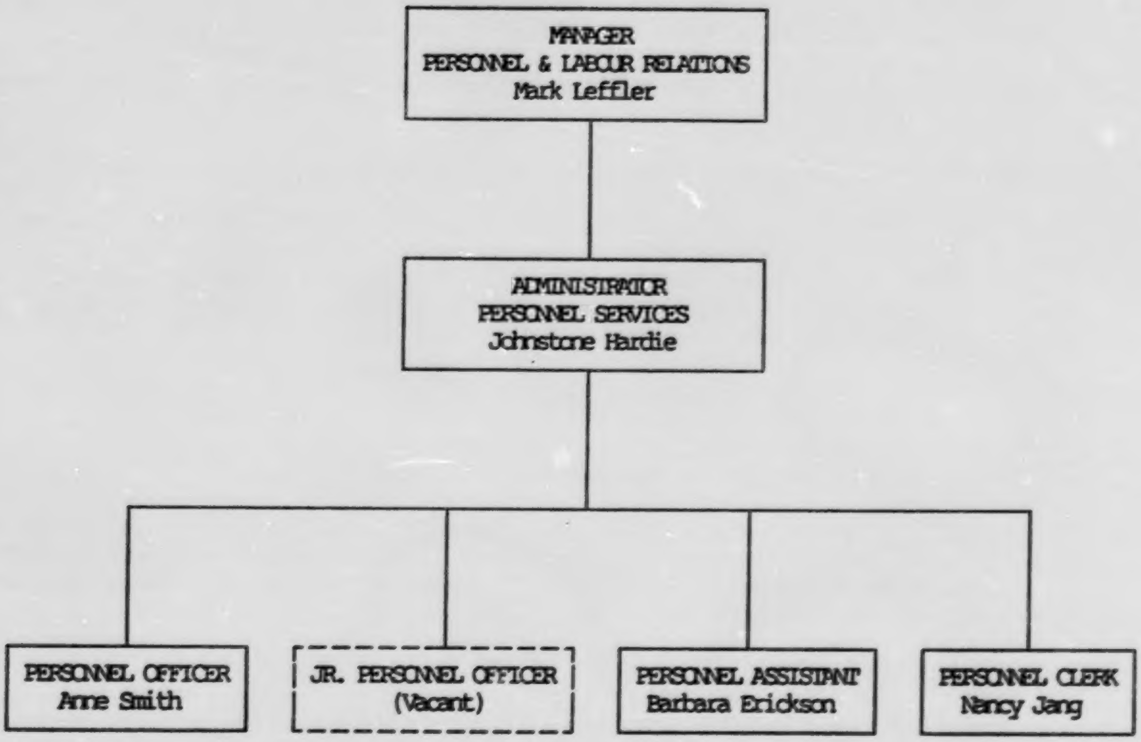
- Selective introduction of employee performance appraisal and skills planning system with potential future management applications in human resource and strategic planning and development.

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Personnel

ORGANIZATION CHART



	APPROVED NUMBERS	ACTUAL
December 31, 1987	4	4
1988 changes	0	0
September 1, 1988	4	4
1989 changes	1	======
TOTAL December 31, 1989	5	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Personnel

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Department Operating Expenses				
Salaries & employee benefits	$202,350	$203,350	$257,200	
Rent	32,500	32,700	32,300	
Board vehicles & mileage	1,200	630	1,220	
Consultants	10,000	8,300		
Labour Relations Services	18,300	18,300	18,300	
Telephone	3,300	3,270	3,300	
Supplies & other services	11,500	9,530	13,390	
Duplicating	2,500	850	2,600	
Equipment replacement & maintenance	2,300	1,710	2,320	
Computer services allocated	2,700	5,000	8,000	
Legal fees	10,000	10,000	30,000	
	296,650	293,640	368,630	
Corporate Programs				
Employee Involvement program	40,000	39,700	40,000	
Employee Development program	10,000		35,000	
Job Evaluation program	20,000	26,400	6,000	
Employee Assistance program	23,000	14,800	23,000	
Succession Planning program			6,000	
	93,000	80,900	110,000	
Total Expenditure	$389,650	$374,540	$478,630	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Safety & Security

Long-Term and Ongoing Role - Safety

To provide worker and public safety within Greater Vancouver Regional District operations by developing, implementing by educational and other means, related practices, policies and procedures to ensure performance equals or exceeds all mandated requirements, including Workers' Compensation, Transportation of Dangerous Goods and Workplace Hazardous Materials Information System, etc.

Long-Term and Ongoing Role - Security

To develop and implement suitable security policies and procedures to provide adequate physical security at District facilities and temporary worksites.

1989 Short-Term Objectives

a) Administer yearly Audiometric Testing Program.
b) Provide Emergency Response Training, including self-contained breathing apparatus, chemical suits, chemical procedures.
c) Administer the biennial Survival First Aid Training Program.
d) Facilities inspections to identify and remedy hazards and security weaknesses.
e) Continue review of Transportation of Dangerous Goods training and provide required training for employees newly engaged in work related to same.
f) Offer chainsaw training and instruct in the proper procedures and special techniques to new employees working with chainsaws and to provide refresher training for those previously trained.
g) Continue to provide consultative services to other departments in all areas of Safety and Security.
h) Assist other departments in meeting the requirements of legal legislation entitled "Workplace Hazardous Materials Information System" (WHMIS) which includes inventory, labelling and training in regard to hazards and varying degrees of response in respect to an incident or emergency.
i) Continuing review of operations of equipment including automobiles, other mobile equipment and stationary or portable equipment.
j) Continue with monthly Safety Committee meetings, addressing any specific concerns and/or issues and the committee's monthly inspections of facilities and temporary worksites with follow-up as required.
k) Continue evaluating equipment to meet GVRD safety requirements and recommend purchasing.
l) Continue locksmithing work as related to "Lock-out" requirements and security needs.
m) Investigate in concert with the Risk Management Officer all accidents and deaths on GVRD property.

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Safety & Security

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 44,500	$ 44,400	$ 46,400	
Board vehicles	4,050	6,860	7,800	
Mileage	350	250	360	
Rent	21,950	21,950	21,950	
Telephone	3,800	1,550	3,810	
Materials & supplies	4,100	3,600	4,200	
Duplicating	300	400	410	
Other services	1,550	1,850	2,090	
Equipment replacement & maintenance	600		620	
Total Expenditure	$ 81,200	$ 80,860	$ 87,640	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Property Division

Long-Term and Ongoing Role

Co-ordinate, direct and maintain the District's real estate practices and procedures to a consistent and high standard.

Provide a complete range of property acquisition services, including negotiation and valuation, to ensure timely acquisition of required properties or interests in properties to meet the needs of the Departments.

Administer the general disposition process of lands and improvements that are surplus to the needs of the Districts; including: site preparation, valuation, tendering, marketing and transfer.

Provide property management services for all Departments, with the exclusion of day-to-day operation and maintenance of month-to-month tenancies and the respective buildings unless requested by the Department. Property Management includes: assessment reviews, tax reviews, facilities inventory, properties records, encroachments, general property inquiries, and other property matters arising out of ownership.

1989 Short-term Objectives

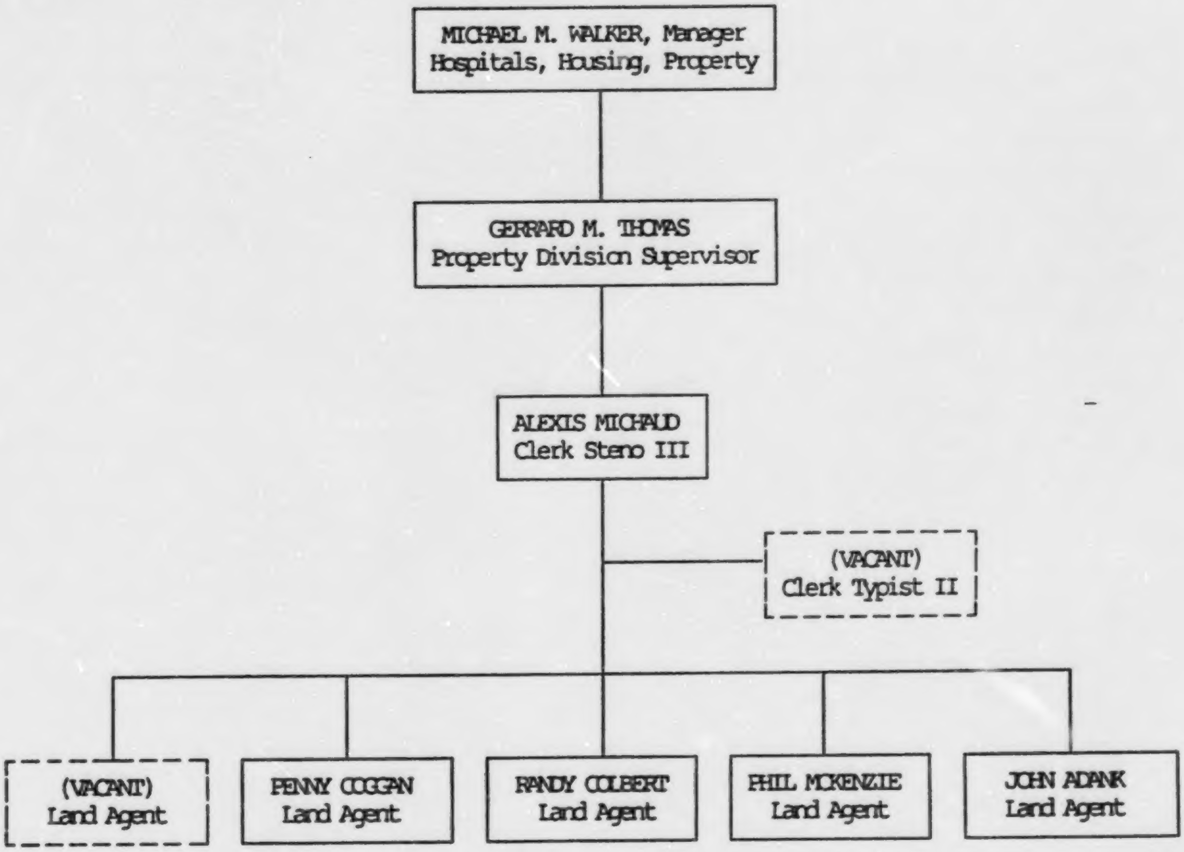
1. Continue the acquisition, disposal and property management of incomplete 1988 assignments.
2. Respond to new acquisition, disposal and property management assignments.
3. Complete the inventory of the Water District, Sewer District, Housing Corporation, Parks Department and general GVRD properties and complete entry of data into Property Information System.
4. Priorize all outstanding Water and Sewer District Rights-of-Way and commence resolution of high priority properties.
5. Monitor the Property Information System and institute program changes as required.
6. Complete first draft of Policy and Procedure manual detailing relationship and areas of responsibility between Departments and Property Division.
7. Continue the assembly of legal mapping.

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Property Division

ORGANIZATIONAL CHART



	APPROVED NUMBERS	ACTUAL
December 31, 1987	5.1	5.1
1988 changes	1.0	1.0
September 1, 1988	6.1	6.1
1989 changes	2.0	
TOTAL December 31, 1989	8.1	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Property Division

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$384,900	$335,100	$475,700	
Board vehicles & mileage	8,600	4,930	11,100	
Travel	5,100	3,500	5,100	
Telephone	6,500	5,300	8,000	
Consultants	67,000	45,100	71,700	
Legal fees	20,000	5,240	20,000	
Contract services		27,900	34,800	
Supplies & other services	11,000	18,420	19,060	
Equipment replacement & maintenance	4,000	750	5,040	
Computer costs allocated	3,050	5,100	7,300	
Computer programs	10,000	15,300	17,300	
Rent	32,450	41,320	45,400	
Indirect departmental costs allocated	6,000	5,600	6,000	
Central Administrative Services allocated	19,150	19,150	28,500	
	577,750	532,710	755,000	
Less charged to:				
Property Acquisitions	351,000	362,490	489,150	
GVWD Administration	100,400	41,300	67,300	
GVS&DD Administration	107,000	117,600	118,600	
GVRD Parks		9,600	46,800	
GVHC Administration	3,760	1,300	22,500	
Total Recoveries	562,160	532,290	744,350	
Net	$ 15,590	$ 420	$ 10,650	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Finance

Long-Term and Ongoing Role

Finance involves the statutory responsibilities of the Secretary-Treasurer's office, the provision of secretarial services to the Board and Committees, and the provision of financial, accounting, budgeting, purchasing, computer and systems services to the various operating departments in an effective and efficient manner.

The estimated 1989 cash flow for all activities, excluding expenditures to the sole cost of outside organizations, is as follows:

Capital Expenditures	$101,072,000
Annual Operating Expenditures	218,362,791
	$319,434,791

Secretary-Treasurer's Office

Undertake the statutory duties and responsibilities of Secretary and Treasurer as provided in the Municipal Act, the Hospital Districts' Act, the Greater Vancouver Water District Act, the Greater Vancouver Sewerage & Drainage District Act and the Company's Act.

Administer all by-laws and documents signed under seal.

Ensure the provision of secretarial and support services to the Chairman, the Board of Directors and Committees.

Manage the District's finances in accordance with sound and prudent policies and the relative statutory requirements.

Ensure the provision of accounting, budgeting, purchasing, insurance, computer operating and systems services to the various departments and functions in an effective manner.

Provide research into regional issues affecting local government finances and taxation.

Secretariat

Provide secretarial and related administrative services to the Board and its function committees including minutes and processing of by-laws.

Revise and maintain annual voters' lists and to conduct local elections (for GVRD Directors and the Island Trust) in the Region's three Electoral Areas, pursuant to the Municipal Act.

Provide administrative assistance to the Secretary-Treasurer and the Chairman as required.

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Finance (Continued)

Accounting

Provide accounting, accounts payable and payroll services for all corporate entities in accordance with generally accepted accounting principles, for local government in British Columbia.

Maintain an on-line computerized integrated financial information system.

Provide required financial reports to management.

Prepare the annual financial statements for the various corporate entities.

Provide assistance to all departments, as requested.

Budget and Treasury

Co-ordinate and prepare the provisional and annual operating budgets, and the five-year capital expenditure program.

Provide budget analyses and cost control information to department managers.

Provide corporate reporting and performance measurement information to senior management.

Administer the cash, debt and sinking fund management services for all corporate entities.

Provide assistance to the Treasurer in arranging long-term financing.

Monitor money market data.

Provide research services with respect to financial matters affecting the Districts and the region as a whole.

Purchasing

Provide centralized purchasing of goods and services for the various functions.

Work with other public bodies in co-operative buying arrangements.

Administer the District's risk management program.

Provide a centralized stores operation.

Computer Operations

Provide centralized on-line time-sharing computer services to all departments.

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Finance (Continued)

Computer Operations (Continued)

Maintain a computer network to provide for micro-computers to communicate with the central system and printers.

Provide common software programs such as word processing to all departments.

Systems

Provide assistance to departments with respect to computer systems analysis and design and software application programs.

Monitor new software products and changes in the computer industry.

Maintain the computer operations strategic plan.

Provide word processing training and assistance to all departments.

1989 Short-Term Objectives

Finalize proposed changes to the G.V.W.D. and G.V.S. & D.D. Acts.

Continue the review and update of the financial reporting system with senior management.

Select and install a computerized purchase order and commitment system to increase efficiency and provide more timely information.

Continue the review and update of accounting, budgeting and purchasing policy and procedures manuals.

Undertake long-term capital financing for the various corporate entities as required.

Continue the establishment of formal risk management policies and procedures.

Establish a computerized information system for Board correspondence, decisions, meetings, by-laws and other business.

Establish formal policies and procedures with respect to establishing managing corporate information systems.

Updating and implementing the computer system strategic plan.

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Finance (Continued)

Review of 1988 Objectives

The new payroll computer information system has been installed. The direct deposit feature has been delayed until minor adjustments and improvements to the system are complete.

The computer operations strategic plan update is complete.

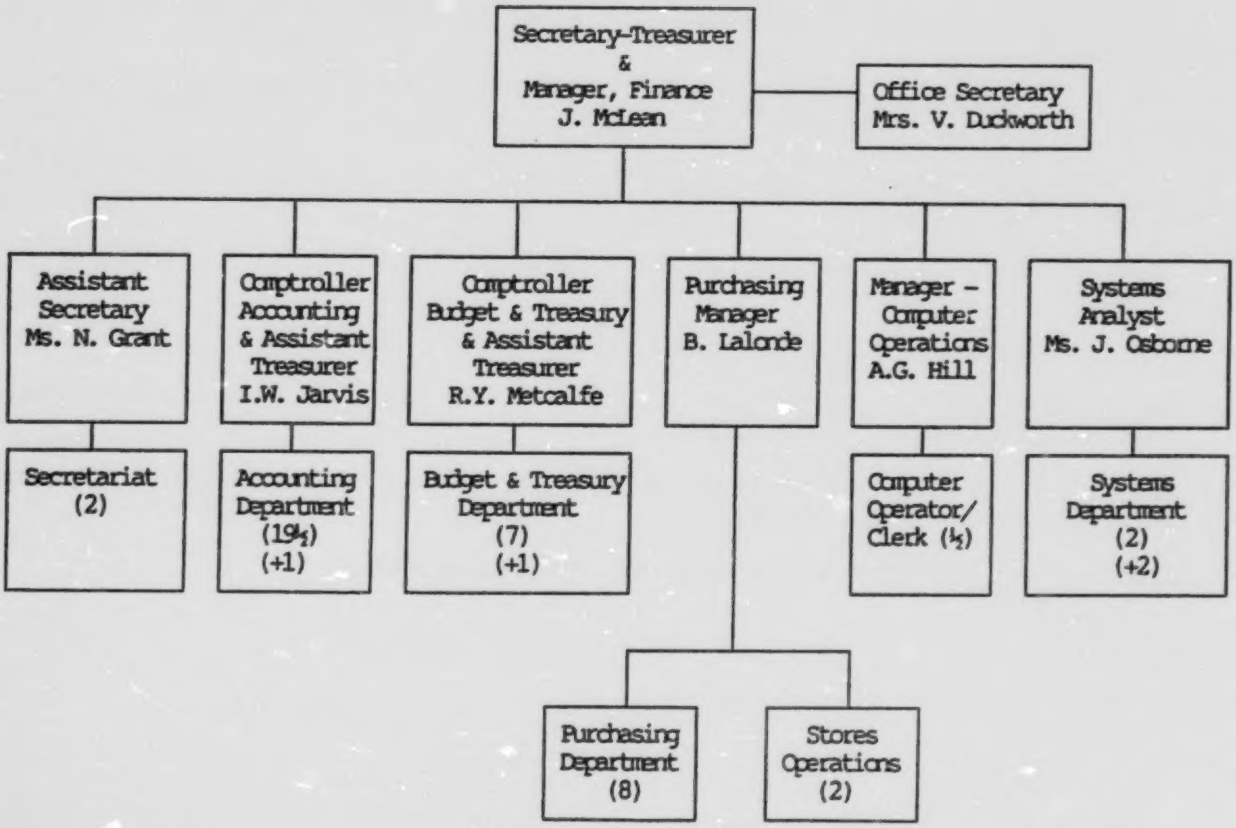
Work commenced on the review and updating of the financial reporting system.

The risk management policy was formalized, special seminars on risk management arranged and work on the policies and procedures manual commenced.

Refinancing Housing Corporation mortgages amounting to about $111,300,000.

The computerized purchase order and commitment system was deferred pending appraisal of available software.

The proposed changes to the G.V.W.D. and G.V.S. & D.D. Acts will be completed in the new year.


Secretary-Treasurer & Manager, Finance J. McLean
Office Secretary Mrs. V. Duckworth
Assistant Secretary Ms. N. Grant
Comptroller Accounting & Assistant Treasurer I.W. Jarvis
Comptroller Budget & Treasury & Assistant Treasurer R.Y. Metcalfe
Purchasing Manager B. Lalonde
Manager - Computer Operations A.G. Hill
Systems Analyst Ms. J. Osborne
Secretariat (2)
Accounting Department (19½) (+1)
Budget & Treasury Department (7) (+1)
Computer Operator/ Clerk (½)
Systems Department (2) (+2)
Purchasing Department (8)
Stores Operations (2)

GREATER VANCOUVER REGIONAL DISTRICT

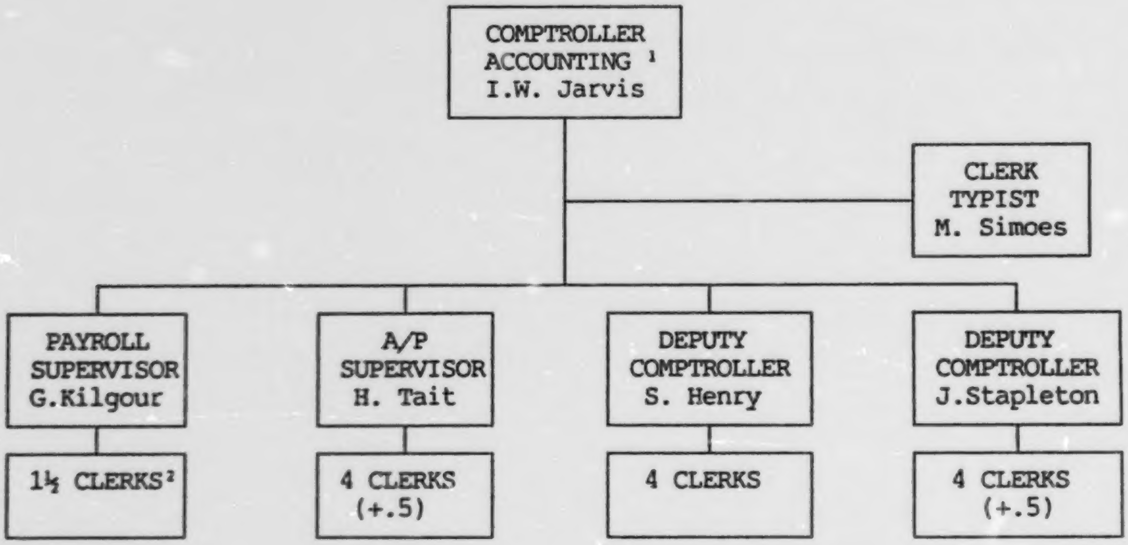
GENERAL ADMINISTRATIVE SERVICES

Accounting Department

Activities or Level of Service

To provide the following centralized services to all functions:

- Payroll
- Accounts payable
- General accounting services
- Capital expenditure control and reporting
- Periodic financial reports
- On-line computerized financial information system available to all functions down to the transaction level of detail.
- Claiming Federal and Provincial sales tax rebates on capital projects.
- Claiming Federal and Provincial Government grants.


COMPTROLLER ACCOUNTING [1] I.W. Jarvis
CLERK TYPIST M. Simoes
PAYROLL SUPERVISOR G.Kilgour
A/P SUPERVISOR H. Tait
DEPUTY COMPTROLLER S. Henry
DEPUTY COMPTROLLER J.Stapleton
1½ CLERKS [2]
4 CLERKS (+.5)
4 CLERKS
4 CLERKS (+.5)

(1) ½ charged to Administration Offices
(2) ½ Clerk charged to Computer Operations and Accounting

	APPROVED NUMBERS	ACTUAL
December 31, 1987	19½	19½
1988 changes	0	0
September 1, 1988	19½	19½
1989 changes	1	
TOTAL December 31, 1989	20½	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Accounting Department

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 689,800	$ 690,790	$ 764,560	
Mileage & Travel	2,150	2,040	2,190	
Membership, tuitions, fees	6,900	1,300	7,150	
Office expenses				
Rent	130,600	130,600	129,800	
Postage	8,700	8,680	9,010	
Telephone	13,000	13,580	14,730	
Materials & supplies	19,150	16,790	19,900	
Duplicating	1,300	3,580	1,320	
Bank charges	1,250	1,100	1,300	
Other services	4,350	12,110	4,520	
Equipment replacement & maintenance	21,500	23,980	24,100	
Consultants		3,700		
Computer programs	67,000	67,000	84,000	
Computer services	104,300	112,100	79,300	
Total Expenditure	$1,070,000	$1,087,350	$1,141,880	

GREATER VANCOUVER REGIONAL DISTRICT

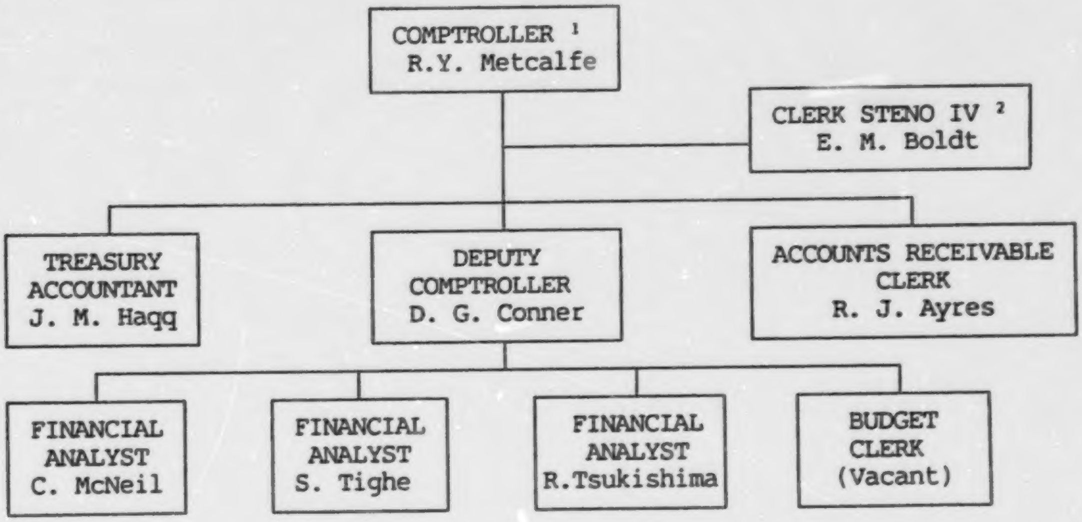
GENERAL ADMINISTRATIVE SERVICES

Budget & Treasury Department

Activities or Level of Service

To provide the following centralized services to all departments:

- Cash management
- Debt management
- Sinking Fund management
- Annual budget co-ordination and production
- Budget analysis and cost control
- Five-year capital expenditure program co-ordination and production
- Assistance in arranging long-term financing
- Monitoring money market data and providing research for investment and borrowing decisions.



(1) ½ charged to Administration Offices
(2) Charged to Administration Offices

	APPROVED NUMBERS	ACTUAL
December 31, 1987	7	7
1988 changes	2	1
September 1, 1988	9	8
1989 changes	0	
TOTAL December 31, 1989	9	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Budget and Treasury Department

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$317,200	$292,900	$344,100	
Mileage	700	400	750	
Travel	800	350	800	
Consultants		2,500		
Office expenses				
Rent	48,000	48,500	48,200	
Telephone	4,000	4,100	4,000	
Materials & Supplies	2,750	2,100	2,850	
Duplicating	11,300	10,500	11,800	
Other services	3,550	5,350	3,700	
Equipment replacement & maintenance	9,700	12,500	12,050	
Computer programs	3,500	3,500	3,500	
Computer services	10,700	21,500	10,800	
Total Expenditure	$412,200	$404,200	$442,550	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Computer Operations

Activities or Level of Service

Backup of system and user files onto tape for safekeeping.

Analyzing the cause of equipment problems and expediting the solution to same.

Analyzing the cause of users' program problems and expediting the solution to same.

Analyzing computer system performance re proper job mix to ensure priorities are met.

Analyze system enhancements, testing and implementing same.

Analyze the use of system resources to ensure all redundant data is removed so as to maintain a reasonable response time.

Ensuring proper maintenance of system and analyzing trends developing from system statistics so as to ensure minimum downtime.

Provide input into the computer system long range plan.

To monitor new computer equipment technology to ensure computer resources are up to date.

COMPUTER MANAGER
A. G. Hill

COMPUTER OPERATOR
- CLERK (½) (1)
(Vacant)

(1) Charged to Computer Operations and Accounting.

	APPROVED NUMBERS	ACTUAL
December 31, 1987	1½	1½
1988 changes	0	0
September 1, 1988	1½	1½
1989 changes	0	
TOTAL December 31, 1989	1½	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Computer Operations Department

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Central Computer Operations				
Salaries & employee benefits	$ 69,800	$ 71,130	$ 60,800	
Rent	31,973	32,000	32,000	
Consultants	7,000	7,000	7,000	
Materials & supplies	14,000	14,000	14,600	
Telephone	3,950	3,950	4,100	
Other services	13,770	13,870	14,300	
	140,493	141,950	132,800	
Provision for equipment replacement	85,100	76,263	114,315	
Equipment maintenance	59,300	54,320	77,808	
Software amortization & maintenance	33,800	38,784	54,829	
Total Expenditure	318,693	311,317	379,752	
Allocated to user departments	(318,693)	(311,317)	(379,752)	
	$ NIL	$ NIL	$ NIL	
Terminals & Printers				
Provision for replacement	$ 39,300	$ 42,500	$ 38,000	
Maintenance	9,900	9,900	10,300	
Supplies	17,500	17,500	18,200	
Total Expenditure	66,700	69,900	66,500	
Allocated to user departments	(66,700)	(69,900)	(66,500)	
	$ NIL	$ NIL	$ NIL	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Systems

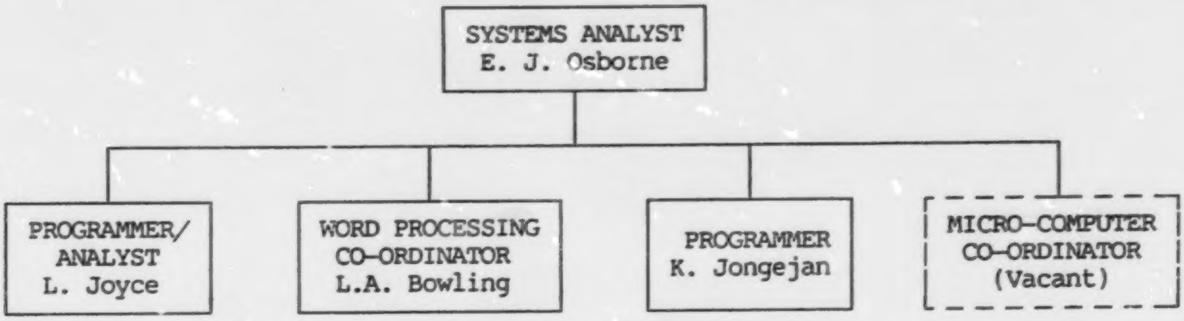
Activities or Level of Service

To provide systems analysis and design services at the request of department managers.

To assist department staff in the use of micro-computers and word processing as well as the main computer applications.

To provide input into the computer system long range plan.

To monitor the introduction of new computer software application products and report to senior management any applications of which they should be aware.



	APPROVED NUMBERS	ACTUAL
December 31, 1987	1	1
1988 changes	3	3
September 1, 1988	4	4
1989 changes	1	
TOTAL December 31, 1989	5	

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$108,300	$123,070	$228,900	
Rent	7,850	7,900	7,900	
Membership, tuitions, fees	5,300	540	14,500	
Postage	100	40	100	
Consultants	6,000	540		
Telephone	1,500	1,540	3,080	
Supplies & services	6,600	6,820	10,120	
Equipment replacement & maintenance	1,000	1,000	4,700	
Computer costs allocated	4,800	2,300	9,200	
Total Expenditure	$141,450	$143,750	$278,500	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Purchasing

Purpose

To centrally purchase all goods and services;

To provide a centralized stores (inventoried stock) operation;

To dispose of surplus goods;

To provide central risk management including administration of insurance;

To administer part of vehicle fleet.

1989 Short-Term Objectives

1. Develop and implement automated purchasing system;
2. Develop and implement interface with accounting to facilitate encumbrance accounting;
3. Develop and present risk management seminar in order to effectively implemente risk management policy.

1988 Objectives

1. Purchasing and Risk Management policies developed.
2. Automated system work confined to investigation and definition.

Activities or Level of Service

To invite tenders for the supply of goods and services so as to attain best value for public funds and in a manner which is fair and open to all who wish to do business with the District;

To enter into contracts on behalf of GVRD which best protect it's interests;

To administer tendering procedures for other contracting authorities;

To administer stores operations including maintenance of inventory records;

To maintain furniture and equipment asset inventory;

To determine most appropriate methods of procurement;

To administer performance with regard to goods and services contracts;

To develop sources of supply;

To administer designated fleet of vehicles;

To develop and implement cyclical procurement plans.

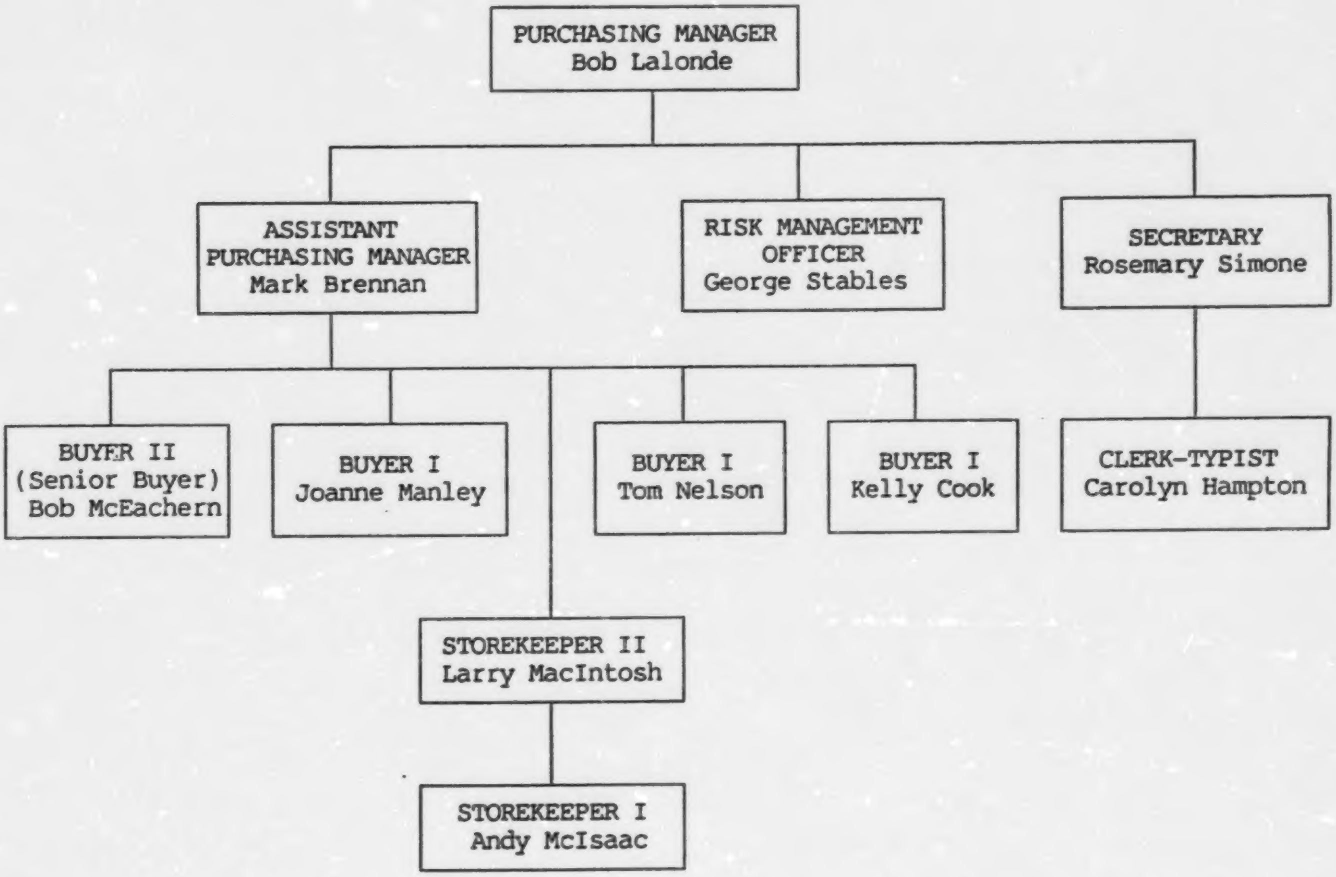
A35

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Purchasing Department

ORGANIZATION CHART



	APPROVED NUMBERS	ACTUAL
December 31, 1987	11	10
1988 changes	0	1
September 1, 1988	11	11
1989 changes	0	
TOTAL December 31, 1989	11	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Purchasing

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$393,850	$397,550	$436,260	
Board vehicles & mileage	14,700	13,330	15,430	
Travel	900	360	940	
Insurance study	40,000			
Office Expenses				
Telephone	10,400	11,500	10,440	
Postage	4,700	4,700	4,900	
Equipment replacement & maintenance	9,000	8,570	13,730	
Computer programs			12,000	
Supplies & other services	24,800	22,700	27,500	
Duplicating	850	670	880	
Computer services	9,200	5,000	7,500	
Rent	52,500	53,000	52,900	
Total Expenditure	$560,900	$517,380	$582,480	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

Central Administrative Services Summary

	Sch	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Finance					
Accounting	A28	$1,070,000	$1,087,350	$1,153,480	+ 7.8
Budget & Treasury	A30	412,200	404,200	447,450	+ 8.6
Systems	A33	141,450	143,750	281,100	+ 98.7
Purchasing	A36	560,900	517,380	582,480	+ 3.8
		2,184,550	2,152,680	2,464,510	+ 14.2
Corporate Services					
Transfer from Corporate Services – Personnel	A17	296,650	293,640	368,630	+ 24.3
Total Expenditure		$2,481,200	$2,446,320	$2,833,140	+ 14.2
Recovery of Central Administrative Services					–
Charges to District Departments					
GVRD functions		$ 287,050	$ 287,050	$ 392,700	+ 36.8
Operations Division		716,850	716,850	775,200	+ 8.1
Engineering Division		144,950	144,950	146,100	+ 0.8
Mechanical Division		81,950	81,950	87,800	+ 7.1
Construction Division		224,800	224,800	241,200	+ 7.3
Quality Control Division		87,000	87,000	103,900	+ 19.4
Waste Disposal Operations		17,600	17,600	89,000	+405.7
Other minor operations		61,500	61,500	40,400	– 34.3
Hospital District Admin.		64,600	64,600	75,300	+ 16.6
Regional District Admin.		31,800	31,800	35,400	+ 11.3
Water District Admin.		43,600	43,600	44,300	+ 1.6
Water District Capital		32,200	32,200	29,000	– 9.9
Sewerage District Admin.		59,100	59,100	55,100	– 6.8
Sewerage District Capital		46,000	46,000	6,700	N/A
Sinking Fund Admin.		32,700	32,700	34,200	+ 4.6
		1,931,700	1,931,700	2,156,300	+ 11.6

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Charges recoverable from other sources				
Greater Vancouver Housing Corporation	$ 403,050	$ 403,050	$ 450,000	+ 11.6
Forestry Division	95,700	95,700	127,700	+ 33.4
Parks Rentals	14,050	14,050	14,500	+ 3.2
	512,800	512,800	592,200	+ 15.5
Total Recovery	$2,444,500	$2,444,500	$2,748,500	+ 12.4
Excess (Deficiency) of Recovery over Expenditure	$ (36,700)	$ (1,820)	$ (84,640)	
Accumulated recovery from previous years	86,640	86,640	84,820	
Excess carried forward to next year	$ 49,940	$ 84,820	$ 180	

GREATER VANCOUVER REGIONAL DISTRICT

GENERAL ADMINISTRATIVE SERVICES

General Expenses

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Audit	$ 56,400	$ 54,100	$ 58,700	
Legal	25,000	6,600	25,000	
Insurance	39,300	33,700	47,700	
Provision for contingencies	40,000	34,200	40,000	
Materials, supplies & other services	4,300	5,200	4,500	
Total Expenditure	$165,000	$133,800	$175,900	

"B"

GREATER VANCOUVER REGIONAL DISTRICT

AIR POLLUTION CONTROL

SUMMARY OF INCREASE IN 1989 EXPENDITURES OVER 1988 FINAL BUDGET

1988 Final Budget		$2,105,900
Less 1988 Extraordinary Items		
Air Management Plan		(120,000)
1988 Base Budget		1,985,900
Changes in Base Budget		
Merit/Reclassification Increases	$ 15,400	
Annualization of 1988 Staff Additions	8,000	
Vehicle replacement	13,800	
Allocated central cost centres	20,900	
Miscellaneous	3,800	
Transfer of indirect costs re reorganization of Pollution/Quality Control (decrease in other budgets)	64,400	
		126,300
Boundary Expansion		
Air pollution control program		
Langley City and Township		64,100
		2,176,300
Changes in Level of Service		
Permit & By-law Administration	63,800	
Project Air Monitoring	29,500	
Inventory & Database Management	46,000	
Air Quality Index Notification	25,800	
		165,100
		2,341,400
Extraordinary Items		
Air Management Plan		
Completion of Stage I	30,000	
Commencement of Stage II	90,000	
	120,000	
Decrease in fiscal services	(116,000)	
		4,000
Inflation		97,600
1989 Provisional Budget		$2,443,000

AIR POLLUTION CONTROL

Long-Term and Ongoing Role

The air pollution control function involves the administration and enforcement of the Provincial Waste Management Act and an Air Pollution Control By-law, as well as the operation of two ambient air monitoring programs. The enforcement programs are not of a voluntary nature, but are programs that the Regional District is legally obliged to perform.

1. Waste Management Act Administration - applies to most emissions with particular emphasis on industrial sources. An inventory of Regional emission sources is maintained and major emissions are controlled by permits, approvals and orders issued by the District Director, in general accordance with Provincial and Federal guidelines.
2. By-law Administration - applies to domestic, commercial and institutional heating installations and incinerators for the disposal of domestic and commercial wastes, having a capacity of 200 kilograms per hour or less. Only approved equipment may be operated, with permits being required for the installation and operation of new facilities.
3. Ambient Air Particulate Monitoring - involves the measurement of coefficient of haze, dustfall, total suspended particulate and suspended particulate metals at 41 stations.
4. Ambient Air Gaseous Monitoring - involves the measurement of gaseous pollutants and selected meteorological parameters at 23 stations, in cooperation with industry and senior government. A Mobile Air Monitoring Unit (MAMU) provides ambient air monitoring capability in those areas of the Regional District which are not in the vicinity of a fixed monitoring station.

In performing the air pollution control function, the Regional District maintains a 24-hour response to citizen complaints of excessive emissions and related air quality problems. Approximately 2,000 such complaints are received annually, with 20-25% being reported outside of normal working hours. These complaints are investigated and remedial action secured, in most cases. Ambient air quality information is available to the public through a 24 hour telephone message system which reports the current Air Quality Index for five areas of the District.

1989 Short-Term Objectives

Enforcement and monitoring programs continue to expand in response to the public's increased sensitivity to air quality issues. For 1989, several short-term objectives have been set which relate to concerns expressed by the public and member municipalities.

1. Air Management Plan

This project is planned for completion in 2 stages. Stage 1 will focus on projections of regional growth, future air quality conditions and an assessment of appropriate air quality models for the Region. This Stage, which was begun in 1988, will be completed in 1989. Upon adoption by the Regional Board, it will provide a work plan for the Stage 2 development of detailed control strategy options.

An extensive emission inventory was completed by the District in 1987 at a cost of $270,000, as part of the Lower Mainalnd Oxidant program. The modification and maintenance of this computer database is an important part of the Air Management Plan development work and the 1989 budget provides $46,000 for these purposes.

2. Air Pollution Control Bylaw

GVRD Air Pollution Control Bylaw No. 92 was revised in 1988 to reflect the growing concern for emissions from solid waste incinerators in apartment buildings. Their use has resulted in a substantial number of complaints from the public and creates potential air quality and health impacts. The new bylaw will be implemented in 1989.

3. Ambient Air Gaseous Monitoring - Telemetry Equipment Upgrade

The telemetry system for the transfer of data from ambient air gaseous monitoring stations to Pollution Control's AQMS computer has been in place since 1975 and has been overloaded by the ongoing expansion of the monitoring system. A project to upgrade the telemetry hardware and software began in 1988 and will be completed in 1989 to provide more cost-effective and reliable data capture for this network.

4. Ambient Air Monitoring Network Revisions

In 1986, the District's Ambient Air Monitoring Network was reviewed by a task force of outside experts. Implementation of their report recommendations will be completed in 1989. This project includes the assessment of suitable monitoring sites in central Burnaby and the North Shore, procurement of equipment for these sites, and an assessment of operation of existing stations on Burnaby Mountain and Eagle Ridge.

The need for program resources to carry out short term monitoring and impact evaluations and maintain and upgrade the extensive ongoing monitoring network has increased substantially in recent years. The 1989 budget provides $29,500 for junior technical resources to assist existing staff in these areas.

5. Oxidant Control Program

The District will continue to participate in the tri-level Lower Mainland Oxidant Program in 1989. This important work will be coordinated with the Air Management Planning program and will include emission forecasts and photochemical modelling, and assessment of oxidant precursor control strategies.

6. Air Quality Index Notification

The District has provided an Air Quality Index to the media and the public since 1985. Concern has been expressed about the timeliness of providing this information to the public with appropriate advisory statements during air pollution episodes. The 1989 budget provides $25,800 to implement an improved notification system and allow for short term staff resources during off hour periods of poor air quality.

7. Extension of Regional Air Pollution Services

The provincial Waste Management Branch provides air pollution control services to the City and Township of Langley. In anticipation of considering the application of these municipalities to join the GVRD, the 1989 budget includes a provision of $64,100 to extend the existing District Air Pollution Control services to these areas.

8. Permitting and Monitoring of Emission Sources

The District's Pollution Control Officers and Sampling Technicians will continue to conduct a large number of inspections and tests of emission sources to ensure compliance with acceptable discharge levels. This information is being incorporated into the emission inventory data base for the dual purposes of Permit management and the assessment of progress in achieving air quality goals.

The District has been required to steadily increase its enforcement and surveillance of permitted sources to meet public concerns and ensure that industry permit requirements reflect growing environmental needs. The District has not increased its air pollution inspection staff since 1972 and the 1989 budget provides $63,800 for additional staff resources to meet these demands.

Review of Prior Year's Objectives

1. Emission Inventory & Permit Fee System

The emission inventory data base for 1985 (completed in 1987) was upgraded in 1988 to include emission test data, permit compliance information, and permit administration fee data. This data base has enhanced both enforcement activity efficiency and the availability of emission source information.

2. Oxidant Control Program

Work continued in 1988 toward establishing an Oxidant Control Strategy for the Lower Mainland. However, the establishment of an Air Management Planning program led to the integration of the GVRD component of this work into Plan development. This latter project, with much broader terms of reference, began in the Fall of 1988.

3. Air Quality Assessment, Forecasting and Reporting

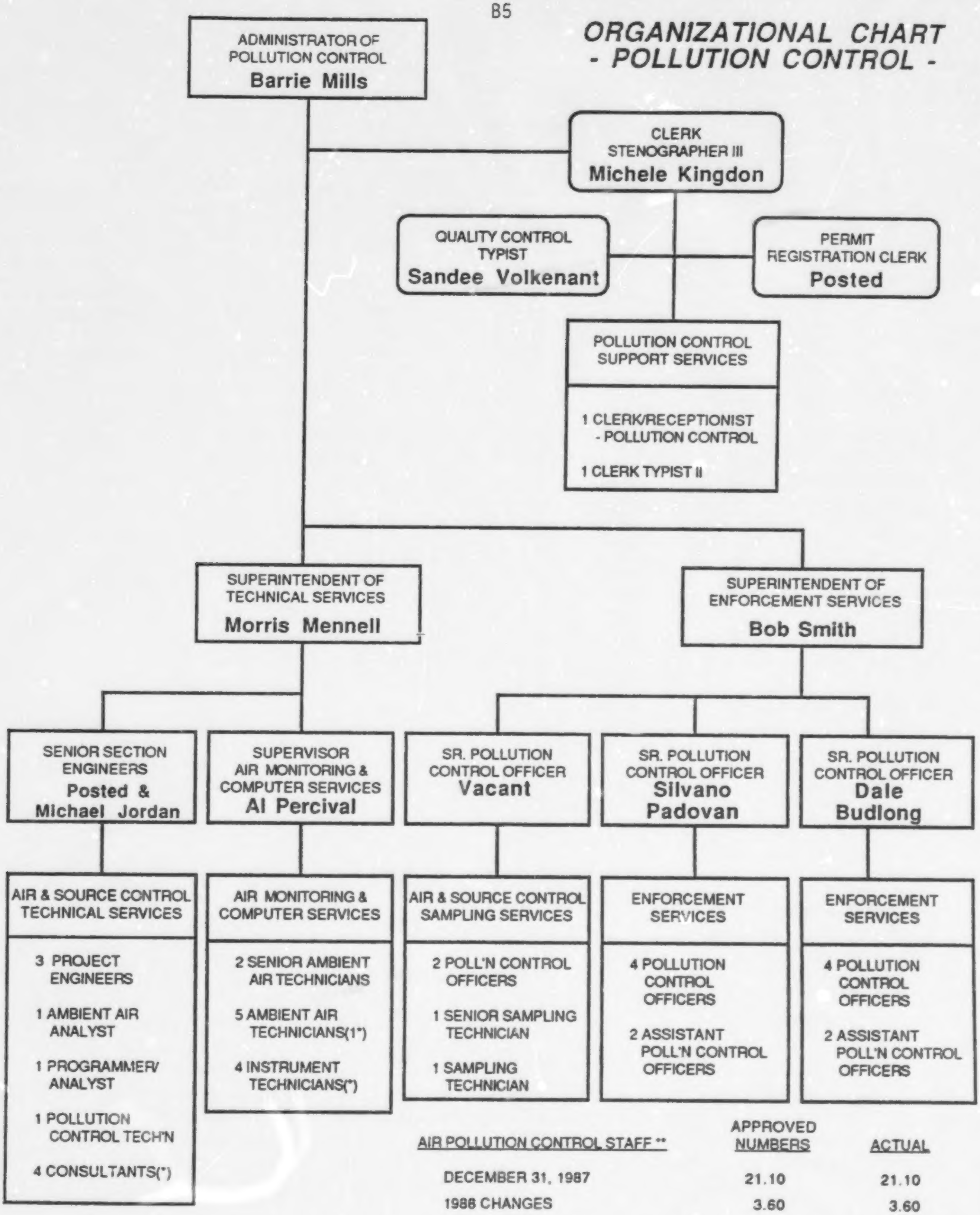
A consortium consisting of Concorde Scientific and B.H. Levelton & Associates were awarded a contract in 1988 for development of Stage 1 of an Air Management Plan for the Region. This project will continue into 1989.

Air quality monitoring at sites surrounding the new Burnaby incinerator provided a wealth of information during 1988 with which to assess the effect on local air quality of the incinerator's operation.

4. Monitoring Network Improvements

Implementation of the monitoring network task force recommendations were continued in 1988. Such major changes to the system require significant resources to complete and the project will continue into 1989.

ORGANIZATIONAL CHART - POLLUTION CONTROL -


ADMINISTRATOR OF POLLUTION CONTROL
Barrie Mills
CLERK STENOGRAPHER III
Michele Kingdon
QUALITY CONTROL TYPIST
Sandee Volkenant
PERMIT REGISTRATION CLERK
Posted
POLLUTION CONTROL SUPPORT SERVICES
1 CLERK/RECEPTIONIST - POLLUTION CONTROL
1 CLERK TYPIST II
SUPERINTENDENT OF TECHNICAL SERVICES
Morris Mennell
SUPERINTENDENT OF ENFORCEMENT SERVICES
Bob Smith
SENIOR SECTION ENGINEERS
Posted & Michael Jordan
SUPERVISOR AIR MONITORING & COMPUTER SERVICES
Al Percival
SR. POLLUTION CONTROL OFFICER
Vacant
SR. POLLUTION CONTROL OFFICER
Silvano Padovan
SR. POLLUTION CONTROL OFFICER
Dale Budlong
AIR & SOURCE CONTROL TECHNICAL SERVICES
3 PROJECT ENGINEERS
1 AMBIENT AIR ANALYST
1 PROGRAMMER/ ANALYST
1 POLLUTION CONTROL TECH'N
4 CONSULTANTS(*)
AIR MONITORING & COMPUTER SERVICES
2 SENIOR AMBIENT AIR TECHNICIANS
5 AMBIENT AIR TECHNICIANS(1*)
4 INSTRUMENT TECHNICIANS(*)
AIR & SOURCE CONTROL SAMPLING SERVICES
2 POLL'N CONTROL OFFICERS
1 SENIOR SAMPLING TECHNICIAN
1 SAMPLING TECHNICIAN
ENFORCEMENT SERVICES
4 POLLUTION CONTROL OFFICERS
2 ASSISTANT POLL'N CONTROL OFFICERS
ENFORCEMENT SERVICES
4 POLLUTION CONTROL OFFICERS
2 ASSISTANT POLL'N CONTROL OFFICERS

AIR POLLUTION CONTROL STAFF **	APPROVED NUMBERS	ACTUAL
DECEMBER 31, 1987	21.10	21.10
1988 CHANGES	3.60	3.60
DECEMBER 31, 1988	24.70	24.70
1989 CHANGES	6.15	
DECEMBER 31, 1989	30.85	

* SEASONAL/PART-TIME

** Full-Time Equivalents

GREATER VANCOUVER REGIONAL DISTRICT

Air Pollution Control
Provisional Revenue & Expenditure Budget
Year Ending December 31, 1989

	Sch	1988 Final Budget	1988 Revised Budget	1989 Provisional Budget	% Change over 1988 Final Budget
Revenue					
Members' tax requisitions		$ 996,632	$ 996,632	$1,179,800	+18.4
Provincial Government grant		475,000	475,000	539,100	+13.5
Other Revenue - Ambient Air Gaseous Monitoring		544,300	548,300	618,600	+13.7
Surplus from previous year		89,968	89,968	105,500	+17.3
Total Revenue		$2,105,900	$2,109,900	$2,443,000	+16.0
Expenditure					
By-law Administration	B10	$ 141,600	$ 138,800	$ 193,800	+36.9
Waste Management Act Administration	B12	877,300	786,600	1,096,600	+25.0
Ambient Air Gaseous Monitoring	B14	829,700	819,900	1,004,400	+21.1
Particulate Monitoring	B15	141,300	143,100	148,200	+ 4.9
		1,989,900	1,888,400	2,443,000	+22.8
Fiscal Services Ambient Air Gaseous Monitoring	B14				
- Debt Charges		48,200	48,200	0	
- Contribution to Capital		67,800	67,800	0	
		116,000	116,000	0	
Total Expenditure		$2,105,900	$2,004,400	$2,443,000	+16.0
Surplus carried to following year			$ 105,500		

GREATER VANCOUVER REGIONAL DISTRICT

Air Pollution Control
1989 Provisional Budget
By Object of Expenditure

	1988 Final Budget	1988 Revised Budget	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$1,068,300	$1,042,800	$1,362,900	
Board & rented vehicles	59,600	66,600	83,400	
Mileage	23,300	18,100	30,000	
Travel	5,900	6,200	8,400	
Consultants	231,500	141,300	217,600	
Telephones	29,000	30,900	35,400	
Provision for equipment replacement	100,700	98,700	103,200	
Repairs & maintenance	31,400	31,100	32,600	
Materials & supplies	83,100	81,700	87,200	
Other services	7,100	6,700	8,400	
Electricity	8,300	7,600	8,300	
Legal	15,000	28,000	26,000	
Advertising	6,600	9,800	6,900	
Computer operations allocated	1,800	1,800	4,300	
Beach Yard control allocated	3,600	3,600	3,700	
Indirect departmental costs allocated	274,000	272,800	384,000	
Office building rental allocated	40,700	40,700	40,700	
	1,989,900	1,888,400	2,443,000	
Fiscal Services				
Debt charges	48,200	48,200	0	
Contribution to capital	67,800	67,800	0	
	116,000	116,000	0	
Total Expenditure	$2,105,900	$2,004,400	$2,443,000	

GREATER VANCOUVER REGIONAL DISTRICT

Air Pollution Control
1989 Provisional Budget
Pollution Control Administration

	1988 Final Budget	1988 Revised Budget	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$133,700	$132,800	$ 46,900	
Board vehicles & mileage	4,000	4,700		
Central administrative services allocated	4,800	4,800	1,800	
Corporate Services Allocated	800	800	300	
Travel	3,500	3,500		
Insurance	100	100	100	
Office Expenses				
Rent	40,500	40,500	34,300	
Postage	4,500	5,000		
Telephones	6,900	6,800	5,600	
Duplicating	6,000	6,500		
Materials & supplies	11,300	12,900	12,300	
Computer operating costs	21,000	17,900	3,400	
Provision for equipment replacement	12,800	12,800	2,000	
Other services	7,000	9,600	4,400	
	256,900	258,700	111,100	
Less allocated to:				
Air Pollution Control	(105,300)	(107,100)	(66,700)	
GVS&DD/GVWD Operations	(151,600)	(151,600)	(44,400)	
Total Expenditure	$ NIL	$ NIL	$ NIL	

GREATER VANCOUVER REGIONAL DISTRICT

Air Pollution Control
1989 Provisional Budget
Indirect Departmental Costs

	1988 Final Budget	1988 Revised Budget	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$	$	$102,300	
Mileage	2,000	2,000	6,700	
Central administrative services allocated	60,725	58,000	80,700	
Pollution Control administrative services allocated	105,300	107,100	66,700	
Corporate Services allocated	6,500	6,000	5,500	
Travel			3,500	
Radio costs allocated	12,700	12,700	12,700	
Office Building rental allocated	77,100	77,100	83,300	
Postage			4,500	
Telephones	12,900	12,300	15,000	
Duplicating			6,800	
Materials & supplies			1,100	
Computer operating costs			27,100	
Provision for equipment replacement			9,800	
Other services			5,500	
	277,225	275,200	431,200	
Less allocated as an override on salaries	(277,225)	(275,200)	(431,200)	
Total Expenditure	$ NIL	$ NIL	$ NIL	

AIR POLLUTION CONTROL

By-law Administration Program

Purpose

To administer and enforce the requirements of the Regional District Air Pollution Control By-law No. 92.

Activities or Level of Service

To date, under this By-law, nearly 200 unapproved incinerators have been closed and over 350 approved units repaired or modified to reduce their emissions. However, the number of complaints regarding these sources remains at a high level. The proposed Bylaw amendments will require that existing incinerators be either substantially upgraded to meet new, more stringent criteria or be shut down. Implementation of this revised Bylaw is scheduled for early 1989. In the interim, staff is continuing to enforce existing By-law requirements.

The following activities are carried out under this program.

- Issue permits for the installation and operation of new equipment and the modification of existing equipment.
- Inspect installations to ensure that all equipment is approved and properly maintained and operated.
- Monitor emission levels and require actions to be taken on excessive readings.
- Provide a 24-hour response to citizen complaints of excessive emissions.

	1988 Final Budget	1988 Revised Budget	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$109,500	$107,800	$145,700	
Mileage	6,900	5,000	8,500	
Other services	200	200	1,200	
Indirect departmental costs	23,700	24,500	37,100	
Beach yard control room allocated	1,300	1,300	1,300	
Total Expenditure	$141,600	$138,800	$193,800	

AIR POLLUTION CONTROL

Waste Management Act Administration Program

Purpose

To administer and enforce the air pollution requirements of the Waste Management Act within District boundaries. The Province supports this program through an annual grant.

Activities or Level of Service

To date, over 400 permits have been issued to control about 3,000 individual emission sources. Permit compliance is regularly reviewed through site inspections and testing of selected sources. About 500 such tests are performed annually on nearly 150 individual sources. In addition, over 1,000 inspections of emission sources are conducted annually by the District's eight Pollution Control Officers.

The development of a computerized inventory of Regional emissions was completed in 1987 under this program. This work is part of the Regional ozone control strategy which is being developed in association with senior governments.

The following activities are carried out under this program:

- Review existing and proposed installations for possible Permitting of any related sources.
- Issue Permits and/or Approvals for emissions from new equipment and the modification or upgrading of existing equipment.
- Inspect installations to verify compliance with Permit and Approval requirements.
- Maintain an active testing program of Permitted sources.
- Act on excessive readings to expedite proper emission control.
- Provide a 24-hour response to citizen complaints of excessive emissions.
- Assist municipal staff in responding to specific inquiries regarding air pollution.
- Participate in public and municipal meetings to discuss air pollution programs.
- Participate in national and provincial programs to establish emission guidelines for selected source categories.

Air Pollution Control

Waste Management Act

Administration Program

	1988 Final Budget	1988 Revised Budget	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$477,500	$464,300	$ 636,800	
Board vehicles	10,200	11,500	10,200	
Mileage	15,000	12,000	19,800	
Consultants	205,000	113,700	185,000	
Other services	3,200	3,300	6,200	
Materials and supplies	7,800	7,700	8,100	
Travel	4,000	4,000	5,700	
Legal	15,000	28,000	26,000	
Advertising	6,300	9,500	6,600	
Provision for Equip. Replace.	18,500	19,000	18,500	
Repairs & maintenance	900	1,300	900	
Beach yard control room allocated	2,300	2,300	2,400	
Indirect departmental costs	111,600	110,000	170,400	
Total Expenditure	$877,300	$786,600	$1,096,600	

AIR POLLUTION CONTROL

Ambient Air Gaseous Monitoring

Purpose

To maintain a regional monitoring network for the measurement and documentation of gaseous pollutants and selected meteorological parameters in the ambient air. Over sixty percent of the cost of this program is contributed by industry and other government sources.

Activities or Level of Service

This program supports the operation of the Lower Mainland air quality monitoring network of 23 automated monitoring stations deployed throughout the GVRD and eastward to Chilliwack. It is a cooperative program supported by industry and the Federal and Provincial governments.

Real time data is continuously telemetered to a head office computer for analysis, and the results are summarized in quarterly and annual reports. Results from some stations are also reported as part of the National Air Pollution Surveillance Network and the World Health Organization.

The following activities are performed:

- Maintain and calibrate all related sampling equipment
- Operate a computer and necessary programs for recording and analyzing all monitoring data.
- Prepare detailed analysis reports of all contaminant data and transmit the results to municipal authorities and the general public.
- Distribute data to the federal and provincial governments for their reporting purposes.
- Operate an air quality index system with daily recorded reports to the news media and the public.
- Assist municipal staff and health authorities in responding to specific inquiries regarding air pollution levels.
- Participate in national and provincial programs to establish objectives for selected contaminants.
- Provide data telemetry and computer services for the GVWD rainfall monitoring program.

Air Pollution Control

Ambient Air Gaseous Monitoring

	1988 Final Budget	1988 Revised Budget	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$402,700	$390,600	$ 496,300	
Board and rented vehicles & equipment	39,600	45,000	63,100	
Mileage	800	800	1,600	
Travel	1,900	2,200	2,700	
Consultants	26,500	27,600	32,600	
Other services	3,100	3,000	3,500	
Materials & supplies	65,500	64,200	68,900	
Telephones	29,000	30,900	32,300	
Insurance	600	400	600	
Purchased repairs & maint.	30,500	29,800	31,700	
Electricity	8,300	7,600	8,300	
Provision for Equipment replacement	71,000	71,000	76,000	
Computer costs	1,800	1,800	4,300	
Indirect departmental costs	105,200	104,300	141,800	
Office building rental allocated	40,700	40,700	40,700	
Amortization of deferred charges	2,500			
	829,700	819,900	1,004,400	
Fiscal Services				
Debt charges	48,200	48,200		
Contribution to capital	67,800	67,800		
	116,000	116,000		
Total Expenditure	$945,700	$935,900	$1,004,400	

AIR POLLUTION CONTROL

Ambient Air Particulate Monitoring

Purpose

To maintain a regional monitoring network for the measurement of dustfall, suspended particulate (total, lead and other metals) and coefficient of haze in the ambient air.

Activities or Level of Service

This program originated with the provincial government and the City of Vancouver and was assumed, with modification, by the Regional District. A total of 67 particulate samplers are now operated at 41 monitoring stations located throughout the Regional District.

The test results are published quarterly and summarized each year in an annual report. Results from selected stations are also reported as part of the National Air Pollution Surveillance Network.

The following activities are performed:

- Collect and analyze samples from all stations.
- Maintain and calibrate all related sampling equipment.
- Prepare analysis reports of all monitoring data and transmit the results to municipal authorities and the general public.
- Distribute specific data to the federal government for their reporting purposes.
- Assist municipal and health authorities in selected projects to assess local air quality.

	1988 Final Budget	1988 Revised Budget	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 78,600	$ 80,100	$ 84,100	
Board vehicles	10,400	10,400	10,200	
Materials & supplies	10,100	9,900	10,500	
Provision for equipment replacement	8,700	8,700	8,700	
Indirect departmental costs	33,500	34,000	34,700	
TOTAL EXPENDITURE	$141,300	$143,100	$148,200	

"C"

GREATER VANCOUVER REGIONAL DISTRICT
HOSPITAL PLANNING

Summary of Increase in 1989
Expenditures over 1988 Final Budget

1988 Final Budget		$440,540
Change in Base Budget		
Annualization of Planner II costs	$ 20,557	
CASA - GVRHD Administration	10,700	
Miscellaneous/Other	(1,928)	
		29,329
Inflation		13,909
1989 Provisional Budget		$483,778

HOSPITAL PLANNING

Long-term and Ongoing Role

The long-term role of the Hospital Planning Department is outlined in Section 20 of the Hospital District Act and Letters Patent dated June 29, 1967. In summary, the Department's long range role is to promote planning to establish the most appropriate health care facilities in locations required by the residents of the Greater Vancouver Regional District.

This role is implemented by developing long-range planning objectives with the Ministry of Health, allocating resources to hospital planning and construction projects, and promoting the appropriate delivery of health care consistent with the changes and improvements in the health care delivery system.

1989 Short-Term Objectives

1. Continue program to provide additional extended care facilities.
2. Establish a more equitable formula for sharing capital financing for Provincial referral institutions.
3. Continue the development and refinement of the Health Planning Database.

New for 1989

4. Evaluate the GVRHD role and Health Care Planning function.
5. Examine equipment funding issues affecting hospitals.

Review of Prior Year's Objectives

1. Continue to provide Extended Care Facilities

   This is a long-range plan, as outlined in the GVRHD Geriatric Care Planning Model. As a result of the growing aged population, we are continuing to recommend the allocation of beds to various locations to meet the needs of the residents of the GVRD.

   Planning has commenced for the 225-bed ECU in South Vancouver and we are anticipating additional planning funds for ECU beds in Burnaby, Richmond and Surrey.

2. Continue to work toward developing a Long-Range Health Care and Geriatric Care Plan

   The First Phase of this plan is complete with the development of the Regional Geriatric Care Planning Model. This report forms the basis for the provision of extended care beds in this Region.

   The development of a Long-Range Health Plan will require additional resources. We are working with the Ministry to share their database on hospital utilization as the First Phase of the development of the GVRHD developing a planning agency.

HOSPITAL PLANNING

Review of Prior Year's Objectives (continued)

3. Establish a more equitable formula for sharing Capital Financing for Provincial Referral Institutions

   A case was presented to the Ministry which showed that financing of hospitals originally under their jurisdiction, should be continued. The GVRHD has also not agreed to accept financing of equipment for Provincial Institutions. Discussions are continuing.

4. Develop a dedicated Health Care Planning function

   A program for the development of a GVRHD Health Planning database has begun. Consultants and students were hired to specify the hardware, software and data needs for this system.

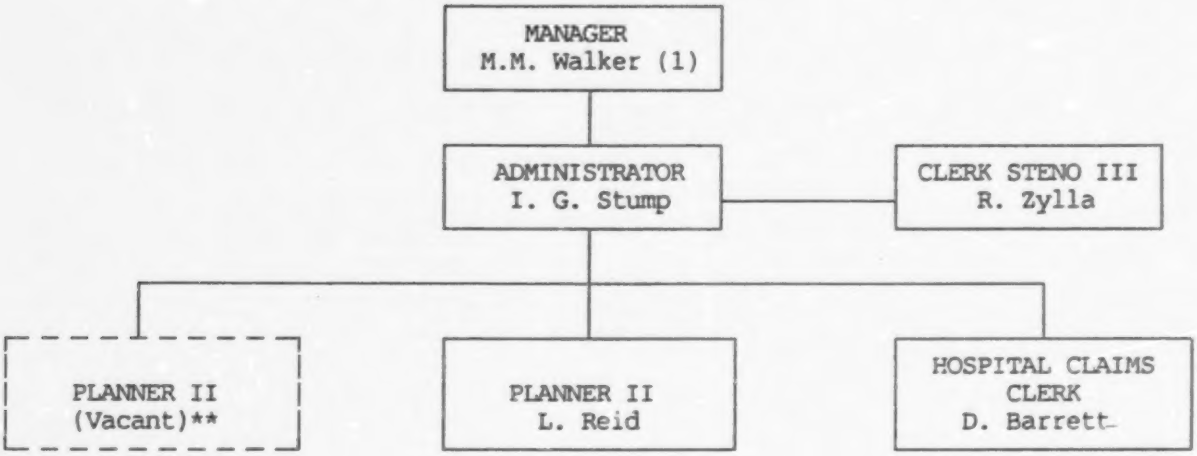
   This represents the first step in the development of a planning function. Development continues, as well as an evaluation of the GVRHD planning function. This is the function of another objective.

5. Examine the Centralization of Parking Card Data for GVRHD Parking Lots

   The feasibility of transferring parking card data, utilization statistics, and cash monitoring capability to a central computer has been examined. The first phase of the process of centralizing this data will be in cash control, subject to the availability of the central processor which is a function of the GVRHD Database.

HOSPITAL PLANNING DEPARTMENT

Departmental Organization Chart



	APPROVED NUMBERS	ACTUAL
December 31, 1987	4.25	4.25
1988 changes	1.00	1.00
September 1, 1988	5.25	5.25
1989 changes	0	
TOTAL December 31, 1989	5.25	

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(1) Charged to Hospital Planning (25%) and Housing Corporation (65%) and Properties (10%).

** Planner I (S. Morris) to August 26, 1988; Planner II replacement in October 1988 will affect the budget in the third year.

GREATER VANCOUVER REGIONAL DISTRICT

Hospital Planning
Provisional Revenue and Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Revenue				
Members' tax requisitions	$431,210	$431,210	$438,943	+ 1.8%
Surplus from previous year	9,330	9,330	44,835	+380.6%
	$440,540	$440,540	$483,778	+ 9.8%
Expenditure				
Planning & administration	$440,540	$395,705	$483,778	+ 22.3%
Surplus carried to following year		$ 44,835		

GREATER VANCOUVER REGIONAL DISTRICT

Hospital Planning
1989 Provisional Budget
By Object of Expenditure

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Hospital District administration allocated	$ 64,600	$ 64,600	$ 75,300	
Salaries & employee benefits	256,380	205,730	288,295	
Board vehicle	1,500	1,074	1,500	
Mileage	4,680	2,670	4,389	
Travel	4,992	3,512	4,846	
Other services	5,138	5,651	4,916	
Consultants	15,000	36,821	17,000	
Office expenses				
Rent	36,200	22,400	31,400	
Postage	1,716	1,732	1,872	
Telephone	4,740	3,442	4,860	
Supplies	2,600	3,943	4,110	
Printing & duplicating	2,288	1,817	1,514	
Equipment replacement & maintenance	8,653	7,400	8,133	
Indirect department costs allocated	12,089	14,300	13,793	
Central administrative services allocated	12,116	12,100	12,100	
Computer operating costs allocated	2,514	2,900	4,100	
Corporate services allocated	5,434	5,700	5,750	
	440,640	395,792	483,878	
Recoveries	(100)	(87)	(100)	
Total Expenditure	$440,540	$395,705	$483,778	

"D"

GREATER VANCOUVER REGIONAL DISTRICT

LABOUR RELATIONS

Summary of Increase in 1989 Expenditures over 1988 Final Budget

1988 Final Budget		$1,598,930
Less: 1988 Extraordinary Items		
Consultants - benefit plans		(20,000)
1989 Base Budget		1,578,930
1989 Extraordinary Items		
Legal Fees - WCB Review Board appeals re Firefighter Cancer claims		65,000
Change in Level of Service		
Temporary clerical help for negotiations area	$ 9,500	
Addition of a Compensation Analyst	43,800	
Additional Compensation Analyst for the City of Vancouver	48,400	
		101,700
Change in Base Budget		
Consultants	(20,000)	
Advertising	(27,000)	
Merits, etc.	4,000	
Other/Miscellaneous	1,300	
		(41,700)
Inflation		61,809
1989 Provisional Budget		$1,765,739

LABOUR RELATIONS

Long-Term and Ongoing Role

The Labour Relations Department of the GVRD has been established to provide professional labour relations services for District municipalities, related Associations, Boards and Commissions and the District itself.

The Department has three primary purposes:

- to conduct collective bargaining on behalf of constituent employers within the policy guidelines established by the Labour Relations Bureau and to provide advice and guidance regarding the administration of collective agreements and any other labour relations matters on request.
- to administer classification and pay plans covering bargaining unit positions within constituent employer organizations; to ensure the viability of the job evaluation system and, on request, to implement and maintain job evaluation/ salary administration programs for exempt employees.
- to provide research and analysis on all aspects of labour relations practices and trends in support of the collective bargaining and compensation functions and in response to specific needs of constituent employers.

OBJECTIVE

To provide timely, effective labour relations, job evaluation and compensation analysis services, including research and analysis support, in order to assist the constituent employers in maintaining employee relations which will enhance the cost-effective delivery of services to the public.

LABOUR RELATIONS

1989 Short Term Objectives

The major short term objectives of the Collective Bargaining Division will include:

- negotiation of collective agreements which expire 1988 December 31;
- production of revised collective agreements;
- preparation and conduct of training programs/information seminars for staff of member jurisdictions.

The Research and Analysis Division will be engaged in:

- continuing refinement of the Labour Relations Information Report system;
- co-ordinating and improving the Department's regular communication vehicle, Management Update;
- providing research support for collective agreement negotiations.

The objectives of the Compensation Services Division will include:

- development and implementation of procedures to evaluate the services provided to constituent employers and improve turnaround time for completion of assignments;
- preparation and conduct of further training programs/information seminars;
- work with representatives of member jurisdictions and collective bargaining staff to evaluate and recommend changes and improvements in the Regional classification plan.

LABOUR RELATIONS

Review of Prior Year's Objectives

During the year, the Collective Bargaining Division staff completed major negotiations with Firefighters, CUPE/VMREU and the Vancouver Police Union. Firefighter agreements were negotiated for a one-year term, while all others covered three years, to December 31, 1990. Negotiations were continuing with CUPE/VMREU locals which were not involved in joint Regional bargaining, and with Police Unions in Delta, New Westminster and Port Moody. Preparations were also underway for negotiations of renewal agreements with all Firefighter locals.

The Research and Analysis Division continued to refine the Labour Relations Information Report and provided comprehensive feedback to participating jurisdictions concerning all major occupational groups. The Division also provided support to collective bargaining; reported to the Industrial Relations Council on all negotiated settlements; co-ordinated publication of the Management Update; produced the annual Trades and Labour Survey; and provided extensive technical support regarding benefit plans issues and exempt employees' compensation.

LABOUR RELATIONS

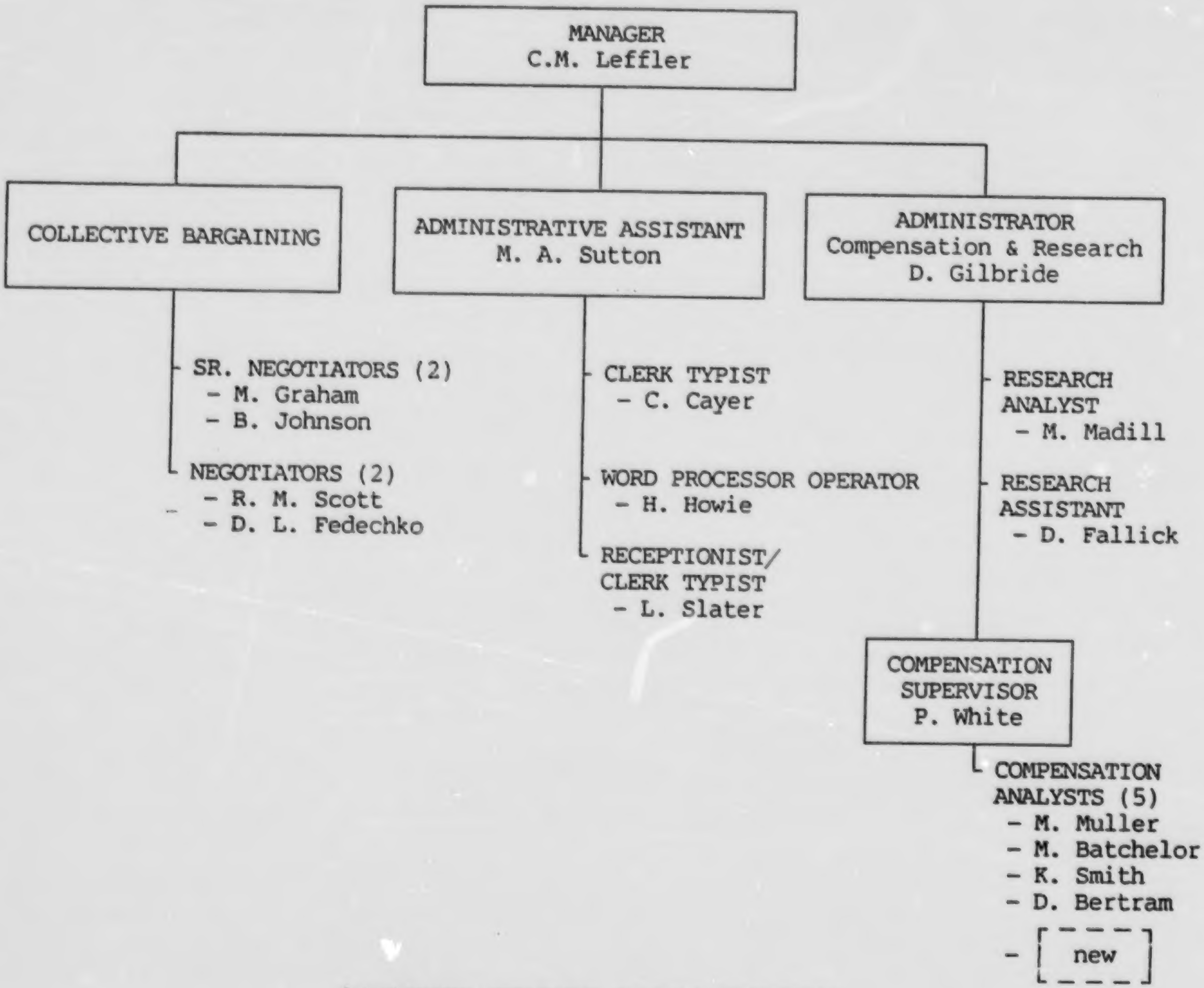
Review of Prior Year's Objectives (cont'd.)

The Compensation Services Division continued to process a high volume of classification reviews. During 1988 (first three quarters) there were 344 requests for reviews. The 1988 projected total of 450 requests is a 36% increase over the 1987 total of 330. The Division also conducted a number of information seminars for staff of member jurisdictions on matters related to the operation of the Regional job classification system.

The Department also conducted a 1½ day seminar for members of the Labour Relations Administrative Committee and Municipal Personnel Directors' Committee. Also participating, by invitation, were representatives of the GVLRA, City of Kelowna and City of Prince George.

LABOUR RELATIONS DEPARTMENT

Departmental Organization Chart



(PERSONNEL SERVICES SHOWN SEPARATELY)

	APPROVED NUMBERS	ACTUAL
December 31, 1987	17	17
1988 changes	0	0
September 1, 1988	17	17
1989 changes	1	
TOTAL December 31, 1989	18	

GREATER VANCOUVER REGIONAL DISTRICT

Labour Relations
Provisional Revenue & Expenditure Budget
Year Ending December 31, 1989

	Sch	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Revenue					
Members' tax requisitions		$1,517,531	$1,517,531	$1,684,298	+ 11.0
GVRD contributions		18,300	18,300	18,300	
Surplus from previous year		63,099	63,098	63,141	+ 0.1
Total Revenue		$1,598,930	$1,598,929	$1,765,739	+ 10.4
Expenditure					
Collective Bargaining	D8	$ 329,768	$ 330,257	$ 328,500	– 0.4
Research & Analysis	D9	120,287	109,754	111,800	– 7.1
Compensation Services	D10	583,595	597,141	732,364	+ 25.5
Administration	D11	277,765	217,452	290,445	+ 4.6
Indirect Departmental Costs	D12	287,515	281,184	302,630	+ 5.3
Total Expenditure		$1,598,930	$1,535,788	$1,765,739	+ 10.4
Surplus carried to following year			$ 63,141		

GREATER VANCOUVER REGIONAL DISTRICT

Labour Relations
1989 Provisional Budget
By Object of Expenditure

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$ 810,178	$ 840,300	$ 920,000	
Board & rented vehicles	4,300	4,173	4,300	
Mileage	18,928	16,273	19,300	
Accommodation	3,000	5,000	2,000	
Advertising	30,000	3,000	3,000	
Publications	4,160	6,048	6,240	
Membership, conference & tuition fees	25,000	21,000	24,000	
Consultants	65,000	35,000	25,000	
Legal	35,000	35,000	100,000	
Job evaluation services City of Vancouver	292,829	292,829	352,223	
Travel	9,500	3,000	5,000	
Central administrative services allocated	40,953	41,000	44,600	
Corporate services allocated	4,500	5,700	5,750	
Office expenses				
Materials & supplies	14,000	10,003	10,400	
Computer services allocated	24,460	21,900	30,800	
Office rent	151,722	151,722	151,722	
Postage	5,200	3,000	3,640	
Telephone	14,960	14,860	15,558	
Equipment replacement and maintenance	26,260	23,056	29,600	
Printing & duplicating	10,000	8,089	8,320	
Other services	12,480	13,134	8,286	
	1,602,430	1,554,087	1,769,739	
Recoveries	(3,500)	(18,299)	(4,000)	
Total Expenditure	$1,598,930	$1,535,788	$1,765,739	

LABOUR RELATIONS

Collective Bargaining Program

Purpose

To conduct collective bargaining on behalf of constituent employers and provide labour relations advice and counsel in the most professional, timely and economical manner.

Activities or Level of Service

There are more than 60 collective agreements to be negotiated at frequent intervals. Because several of them have been negotiated in a joint manner recently, these agreements normally cover more than 40 separate sets of negotiations. Activities of the Division include:

1. The actual conduct of the negotiations.
2. Preparation of memoranda.
3. Preparation of detailed research materials supplementary to those prepared by the Department's Research and Analysis Division.
4. Preparation of employer proposals and rationale.
5. Liaison with municipal officials which is provided by means of regular written reports, and which is supplemented as often as possible by briefing sessions.
6. Drafting of agreements which is carried on in conjunction with municipal officials.
7. Preparation of Occupational Group Collective Bargaining frameworks.
8. Special research, e.g. Equal Pay/Contracting Out.
9. Preparation of employer submissions for interest arbitration proceedings.
10. Preparation for, and participation in employer submissions for grievance arbitration and Industrial Relations Council proceedings.
11. Analysis of member jurisdictions' arbitration awards and provision of advice to members regarding modification of practices and procedures.
12. Analysis of current management systems such as sick leave and absenteeism, occupational health and safety, and provision of advice and recommendations to individual members upon their request.
13. Monitoring the new agreements which will be carried out in conjunction with municipal officials.
14. The staffing of joint employer union committees.

LABOUR RELATIONS

Collective Bargaining Program (cont'd)

Alternatives

None applicable.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$307,712	$305,300	$313,800	
Mileage	8,736	7,919	7,200	
Travel	2,000	2,000	1,500	
Other services	8,320	10,038	4,000	
Negotiations & other accommodation	3,000	5,000	2,000	
Total Expenditure	$329,768	$330,257	$328,500	

LABOUR RELATIONS

Research & Analysis Program

Purpose

To conduct research and analysis to provide the operating groups of the Department and constituent employers with updated information on trends in compensation and labour relations and other employee relations areas of interest and concern. The Division also analyzes issues and trends to provide the basis for recommended policy decisions either within the Department or within constituent employers.

Activities or Level of Service

1. Collection and analysis of cost data, benefit usage patterns and other pertinent data, from member municipalities for collective bargaining purposes.
2. Gathering of external cost data and wage and benefit levels in order to permit comparative analysis between the members and the rest of the community.
3. Review of pertinent literature in order to permit identification of current and anticipated problem issues and subsequent analysis in order to provide a basis for policy determination by the Bureau Directors.
4. Liaison with the Business Council in order to keep abreast of current developments and trends affecting other major employers.
5. Liaison with other public employers within B.C. and with officials of other major Canadian cities which may influence the members by their actions, in order to contribute to the development of external compensation data.

Alternatives

None applicable.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$117,227	$122,100	$108,800	
Mileage	1,040	1,663	1,000	
Travel	1,500		1,500	
Other services	520	15	500	
	120,287	123,778	111,800	
Recoveries		(14,024)		
Total Expenditure	$120,287	$109,754	$111,800	

LABOUR RELATIONS

Compensation Services Program

Purpose

To administer the Regional classification plan equitably by allocating positions to and determining pay values for bargaining unit classes within participating organizations. The Division processes requests for reclassification, re-valuation and for the classification of new positions taking into consideration internal and external equity within Occupational Groups. The Division also analyzes other job evaluation systems and implements and maintains, as requested, job evaluation and salary administration programs for exempt employees.

Activities or Level of Service

1. Upon referral from individual personnel directors, department staff interview employees, supervisors and department heads, analyze the results and prepare recommendations as to classification and pay which take into account internal equity within the particular municipality and external harmony in consideration of the principle that an equal level of work within an occupational grouping should command an equal pay level throughout the region.
2. Represent the municipalities in negotiations and arbitrations with unions with respect to disputed employer decisions.
3. Upon the request of individual municipalities, develop, install and administer Executive and Exempt staff plans and performance appraisal systems including developing and recommending Executive and Exempt salary policy.
4. Undertake special projects related to alternate job evaluation systems.

Alternatives

None applicable.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$246,406	$267,100	$358,800	
Mileage	8,840	6,691	10,800	
Consultants	35,000	30,000	10,000	
Other services	520	602	541	
Job Evaluation Services City of Vancouver	292,829	292,829	352,223	
	583,595	597,222	732,364	
Recoveries		(81)		
Total Expenditure	$583,595	$597,141	$732,364	

LABOUR RELATIONS

Administration Program

Purpose

To plan and control the three Programs, i.e. Collective Bargaining, Compensation Services and Research & Analysis, and to provide basic administrative support services to the entire Department.

Activities or Level of Service

1. Establishment of goals and objectives, independently and through consultation with the Regional Manager, LRAC and LRB.
2. The identification of Department priorities.
3. The planning and control of departmental activities.
4. The implementation of organization and management systems to facilitate work flow.
5. The preparation of budgets and the accounting of expenditures.
6. The co-ordination of review and control procedures to compare results to plan.
7. Liaison with member municipalities.
8. Liaison with government, union and business officials.
9. The initiation, review and implementation of human resource development programs for Department staff.

Alternatives

None applicable.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$138,833	$145,800	$138,600	
Board & rented vehicles	4,300	4,173	4,300	
Mileage	312		300	
Travel	6,000	1,000	2,000	
Membership fees	25,000	21,000	24,000	
Advertising	30,000	3,000	3,000	
Legal	35,000	35,000	100,000	
Consultants	30,000	5,000	15,000	
Postage	5,200			
Other services	3,120	2,479	3,245	
Total Expenditure	$277,765	$217,452	$290,445	

GREATER VANCOUVER REGIONAL DISTRICT

Labour Relations
1989 Provisional Budget
Indirect Departmental Costs

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Rent	$151,722	$151,722	$151,722	
Postage		3,000	3,640	
Telephone	14,960	14,860	15,558	
Publications	4,160	6,048	6,240	
Materials & supplies	14,000	10,003	10,400	
Equipment replacement and maintenance	26,260	23,056	29,600	
Duplicating	10,000	8,089	8,320	
Computer services allocated	24,460	21,900	30,800	
Central Administrative Services allocated	40,953	41,000	44,600	
Corporate Services allocated	4,500	5,700	5,750	
	291,015	285,378	306,630	
Recoveries	(3,500)	(4,194)	(4,000)	
Total Expenditure	$287,515	$281,184	$302,630	

"E"

GREATER VANCOUVER REGIONAL DISTRICT

PARKS
SUMMARY OF INCREASES OF 1989 EXPENDITURES OVER 1988 FINAL BUDGET

1988 Final Budget			$5,531,823
Operating Costs			
Change in Level of Service			
Additional salaries and related costs required to maintain and secure parks	$ 181,600		
Operations Management			
- Construction Supervisor - balance of costs to capital projects	9,000		
- Tent Repairs & Maintenance - due to loaning of tents	5,000		
- Part-time secretary to assist booking clerk	15,200		
Utilities & contract services - Crippen Park	8,000		
Administration - Secretary	28,200		
Visitor Services Assistant	14,400		
Part-time Secretary to full-time	12,400		
Senior Park Interpretation - Burnaby Lake	8,100		
		$ 281,900	
Change in Base Budget			
Camp Capilano	(15,600)		
CASA	24,100		
Computer costs allocated	3,690		
Corporate Services allocation - Property Services	45,300		
Miscellaneous	23,700		
		81,190	
Inflation		128,548	
			491,638
Debt Charges			
Decrease in contribution to capital fund		(149,703)	
Increase in interest expense		67,837	
			(81,866)
1989 Provisional Budget			$5,941,595

REGIONAL PARKS

1989 SHORT-TERM OBJECTIVES

PLANNING AND DEVELOPMENT

Purpose Statement

To carry out planning, policy development and design, to coordinate development, acquisition, management and public involvement for the Regional Park system and its individual parks in keeping with GVRD's mandate to provide for long-term outdoor recreation needs of Lower Mainland residents while preserving key natural and historic features.

KEY RESULTS AREAS, (KRA),GOALS AND OBJECTIVES

KRA: Systems Planning, evaluation of new parks proposals and land acquisition coordination

Goal: To plan and set priorities within a systems context for development and management of parks and for acquisition of lands within existing and new site proposals.

Objectives:

System Planning:

1. Complete Year 2000 Park Development and Operating Plan with revised park development and financing approaches and targets.

2. Within the context of the Year 2000 Plan and the Fraser River Estuary Program bring forward recommendations on Regional District actions in Fraser River parks, Sumas Mountain and other park proposals.

3. Fraser River Estuary Management Program - Complete the recreation activity program chairmanship and coordinate action to adopt an implementation program and to initiate pilot projects.

4. Extend effectiveness of visitor counts and estimates including an extensive program of visitor surveys and marketing analysis.

Land Acquisition Coordination:

1. Complete transfers of Crown land at Belcarra including submission of proposals for trail corridors on Buntzen Ridge.

2. Continue efforts to secure Crown land grants and decisions at Point Grey and Lynn Headwaters.

3. Kanaka Creek: continue liaison with Maple Ridge on property negotiations, and municipal planning for roads and residential use of adjoining lands.

4. Pursue disposal of selected surplus parcels at Crippen Regional Park.

5. Secure minor Crown properties at Minnekhada for utilities, access parking etc; identify policy on long term status of Minnekhada Farm.

1989 SHORT-TERM OBJECTIVES, Continued

6. Effect liaison with the Port of Vancouver recreation study to ensure that Belcarra water recreation potential, marine access and undersea park objectives are incorporated.

7. Complete Crown land grants or leases at Capilano River, Crippen, Boundary Bay and Iona Island foreshores.

8. Continue private land acquisitions at Kanaka, Iona, Burnaby Lake, Derby Reach and Boundary Bay.

KRA: Planning Studies, Biophysical Inventories and Master Planning

Goal: To produce park master plans and management strategies based on a sound understanding of parks biophysical resources and recreation potential, taking into account the needs of special groups within the population and maintaining an harmonious fit with adjacent communities.

Objectives:

Master Plans and Biophysical Studies

1. Complete Campbell Valley Regional Park Management Plan.

2. In association with other departments and Senior Government agencies finalize plan for Iona Beach Regional Park for 1989/90 first stage implementation.

3. With GVWD staff extend Demonstration Forest development and operating plans.

4. Initiate contacts and public input on Point Grey master plan if park established by Province.

5. Pursue biophysical studies for Burnaby lake, particularly on water quality, fish and wildlife and impacts of dredging (if grant support obtained).

6. Complete detailed biophysical assessment of Aldergrove Lake gravel extraction site to finalize extraction and restoration plans; direct and monitor extraction activities.

7. Participate in Fort Langley Enhancement Society to effect links to Derby Reach.

8. Develop monitoring program for bank erosion at Derby Reach with other agency participation.

9. Prepare broadly based "Function and Opportunity Plan" for Tynehead Regional Park to respond to private sector development proposals, decision on Tynehead Zoo, and other opportunities.

1989 SHORT-TERM OBJECTIVES, Continued

Planning Studies

1. Tynehead: provide direction and analysis for Tynehead Zoological Park and/or York Hanover Theme Park concepts, terms and staging.
2. Seek agency commitments to develop terms of reference for program to complete a marine park plan for Belcarra foreshore and water zones.
3. Bowen Island: respond to joint Snug Cove Village planning program proposals in order to finalize park boundaries, define and designate surplus property and to establish long term development priorities and links to other open space.
4. Prepare trail concept through rented farm properties, Aldergrove Lake Regional Park.
5. Complete feasibility study and determine appropriate action program for possible reconstruction of Expo "Ship of Dreams" at Deas Island.

KRA: Site and Facilities Design and Development

Goal: Consistent with park master plans, to design attractive, practical and safe access and facilities to guide implementation of site plans and development whether by staff, contractors or community organizations.

Objectives:

Design tasks - associated with capital development program and other projects

1. Complete design work for first stage fire protection, visitor, sanitation, and other improvements for Point Grey Regional Park and implement in summer 1988.
2. Complete first phase plans and design for Snug Cove picnic area facilities, associated trails and other improvements.
3. Prepare site plan and priorities for land acquisition and development of west side access to Capilano River.
4. In Seymour Demonstration Forest complete designs for small scale improvements of the Rice Lake shoreline and picnic facilities at Seymour Falls Dam.
5. Complete site plan and Falls Core in Kanaka Creek.
6. Complete design for original Fort Langley historic site cairn and display at Derby Reach Regional Park.
7. Complete site plan and implement Boundary Bay access and beach facilities project.
8. Complete Glencairn Avenue picnic area site plan (Burnaby Lake) for implementation when funds available.

REGIONAL PARKS

1989 SHORT-TERM OBJECTIVES, Continued

9. Complete design and engineering for Woodcroft trail construction, Capilano River.

10. For Lynn Headwaters complete off street parking, cycle route and trail links connecting the entrance area and Seymour Demonstration Forest, Rice Lake Site.

11. Complete designs for wheelchair access to trails and viewing areas in Campbell Valley.

12. Update site plan and complete working drawings for improvements to 8th Avenue area of Campbell Valley.

13. Design disabled facilities for access to White Pine Beach and swimming.

14. Complete designs for new group camp sites, initial facilities at McLean Pond, new service yard and parking/entrance at Equestrian Centre in Campbell Valley.

15. Complete engineering assessment of Belcarra Wharf and for stability and rehabilitation of Capilano River hatchery access road.

16. Prepare plan for expanded parking at Minnekhada.

17. Prepare Phase One development designs and working drawings for Iona Beach, including marsh enhancement, beach, outfall, promenade etc.

18. Design Rice Lake improvements for special needs access for fishing and picnic/interpretation shelter.

19. Design water control works to maintain Camosun Bay.

20. Complete detailed Phase One designs for Boundary Bay.

21. Complete site plans for Glenmore and Page Road access points to Matsqui Trail.

22. Complete surveys and design for bridges and trails for cyclists between Lynn Headwaters and Seymour.

Community Sponsored and Private Sector Projects

1. Continue to liaise with a number of other interested groups who wish to develop special use facilities complementary to several Regional Parks.

2. Work with B.C. Corrections programs for continued trail and bridge work at Kanaka and define construction standards for such work.

3. Seek Habitat Conservation Fund assistance for rehabilitation and/or conservation of wetlands, ponds, and other wildlife habitat improvements at Deas Island, Campbell Valley, Iona Beach and other sites.

REGIONAL PARKS

1989 SHORT-TERM OBJECTIVES, Continued

4. Complete plans and agreement for LIFT Native Indian Cultural Centre project at Deas Island.

5. Provide direction and liaison for projects at Tynehead including possible Expo Theatre relocation and B.C. Art/Landscape Zone projects.

6. Encourage and direct Environment and Youth Program projects at Burnaby Lake, Deas Island, Seymour, and other sites where possible.

7. Seek trail projects under community sponsorship at most sites - emphasizing Belcarra, Matsqui Trail, Burnaby Lake, Lynn Headwaters and Kanaka Creek.

8. Determine a joint project or discontinue action on field facilities for retrieving and pointing dog clubs.

9. Complete equestrian trail improvements with equestrian groups at Kanaka Creek, Derby Reach and Campbell Valley.

10. Confirm a clearer program with the Scouting organizations for tree planting and nursery sites in regional parks.

11. Seek Heritage Trust and community sponsorship to restore causeway at Crippen.

12. Complete liaison and planning for golf course proposal at Crippen unless project is dropped in favour of alternative facilities or park/environmental considerations.

13. Confirm non-profit group support for major trail and viewpoint improvements at Capilano and Belcarra (Sasamat Lake).

14. Support Heritage Trust sponsored projects for historical research and programming at Campbell Valley, Aldergrove Lake and Derby Reach.

KRA: Resource Management and Conservation

Goal: To preserve manage and/or enhance key natural areas and features of historical significance within the parks system.

Objectives:

1. Derby Reach - if possible allocate funds to engineering assessment of major erosion to upstream river front property.

2. Undertake forest management evaluations for Regional Parks, with emphasis on Capilano, Belcarra and Minnekhada.

3. Campbell Valley and Aldergrove Lake - pursue appropriate pilot projects on mowing and other treatments to protect meadows from encroaching shrub and tree growth.

4. Secure verbal and graphic historical records for the Loucks and Millwood Farms in Aldergrove Lake park, from family members and acquaintances.

1989 SHORT-TERM OBJECTIVES, Continued

KRA: Public Information and Policy Development

Goal: To keep the public informed about our activities and how to use parks reasonably and safely; to seek public input on questions of policy, respond to public requests for special uses of Regional Parks and actively promote awareness and use of the parks system.

Objectives:

1. Complete recreation and naturalist group comment and information for Campbell Valley Management Plan.

2. Seek broad equestrian community support for "Guidelines for Equestrian Trails" report and standards.

3. Encourage broad municipal, private sector, public and tourism agency input for Tynehead Functional Plan

4. Establish community support for good management and responsible public use in Point Grey and Boundary Bay sites.

5. Respond to public inquiries and requests for non-profit group use of park land and facilities.

REGIONAL PARKS

1989 SHORT-TERM OBJECTIVES, Continued

RECREATION SERVICES

Purpose

To provide a creative, broad spectrum of events, participatory public programs and other park interpretation and educational services that enrich public appreciation and respect for Regional Park resources, and capture public and media attention; to encourage and provide opportunities for public volunteerism and corporate and government support; to increase the Park system's profile by promoting its programs, its natural and cultural features and utilization of its facilities and to ensure systematic distribution of visitor services in the region through thoughtful planning.

KRA: Special Events

Goal: To introduce new users to Regional Parks through an imaginative, Special and Recreation Events annual program which is designed to complement available parks resources, provide entertaining leisure pursuits for all ages and to attract community, corporate and government participation.

Objectives:

1. Continue significant Special Events through the year to introduce visitors to as many parks and their potential as possible.
2. To highlight the potential of Point Grey Regional Park with an event that has broad group participation.
3. Fine tune and expand on the base of the first Fraser River Festival by greater involvement of river and shoreline users and agencies as participants and co-sponsors to draw attention to the positive recreation, habitat and other functions of the River.
4. Continue development of the concept and activities of Celebration of Nature at Campbell Valley Regional Park so that this event epitomizes the natural diversity and possibilities of the Regional Park system.
5. To develop and maintain municipal, community and private sector involvement and support in each special event.
6. To assist non-profit organizations and municipalities where possible with their special events in regional parks eg. Capilano River Rubber Duck Race (North Shore Rotary Club).
7. Expand the program of "Recreation Events" first tested successfully in 1988, at several parks and Seymour Demonstration Forest.
8. To provide information on other GVRD activities to ensure that visitors are knowledgeable about the resources, services and facilities GVRD provides.

REGIONAL PARKS

1989 SHORT-TERM OBJECTIVES, Continued

KRA: Interpretative Program

Goal: To provide interesting and challenging interpretive programs, displays and self-guiding brochures to develop the public's awareness and respect for the Park's diverse and special natural and cultural features, and to act as a resource for the parks department and community.

Objectives:

1. To provide changing array of cultural history and nature programs for all ages with significant emphasis on Burnaby Lake, Deas Island and Campbell Valley Regional Parks and a lesser emphasis at Kanaka Creek, Minnekhada, Boundary Bay, Tynehead, Derby Reach, Belcarra, Aldergrove Lake and Crippen Regional Parks, and the Seymour Demonstration Forest.
2. Open the Burnaby Lake Nature House open seven days a week from mid-May to August and the Inverholme Schoolhouse and Campbell Valley Visitor's Centre on weekends from June to September.
3. Provide orientation workshops for teachers and environmental education programs for Camp Capilano and appropriate information about the Camp to the community.
4. Provide strong cultural history and nature interpretation components at eight Special Events.
5. Design and install basic displays at the Campbell Valley visitor centre.
6. Plan and supplement Demonstration Forest interpretative programs; complete a comprehensive "Education Plan" as part of the Seymour Demonstration Forest team.
7. Systematically collect visitor data about use patterns, program interests and evaluations.
8. To provide interpretive trails at Capilano and Burnaby Lake Regional Parks, and the Seymour Demonstration Forest.
9. Assist municipalities and non-profit groups to utilize park natural areas through in-service training and program experience.
10. Provide interpretative program planning and natural resource input to park master planning.

KRA: Volunteer and Donors Program

Goal: To invite and support volunteer and donor participation in Regional Parks activities.

REGIONAL PARKS

1989 SHORT-TERM OBJECTIVES, Continued

Objectives:

1. Provide volunteers and donors for GVRD programs and projects.
2. Train and identify volunteers working in the Regional Parks team.
3. Conduct activities which recognize volunteers and donors for contributions to Regional Parks.
4. Design and carry out activities to foster corporate sponsorships and donor programs for special events and related activities.

KRA: Visitor Services

Goal: To provide primary information for Regional Parks in marketing and promoting facilities and programs and to provide public information about the Regional Parks system.

Objectives:

1. Reprint Park brochures and generate new ones for those which are out of date and for parks needing them.
2. Revise and reprint Regional Parks's general park brochure.
3. Complete and distribute 1989 Regional Park Passport which will encourage the public to visit regional parks and discover their significant features.
4. Participate in proposed surveys and marketing studies for Regional Parks.
5. Coordinate production of a new GVRD Parks display which will be used at special events and at libraries, conferences and shopping malls.
6. Prepare the 1989 program brochure which will consist of visitor centre information, dates and details about special events, recreation events, children's nature programs, interpretive events and the volunteer program.
7. Distribute effectively park brochures, programs, Park Passport and other printed information.

1989 SHORT-TERM OBJECTIVES, Continued

PARK AND RENTAL OPERATIONS

Purpose

To manage the construction, operation and maintenance of a system of Regional Parks so as to provide a safe, secure, accessible and convenient environment for the recreation-seeking public of the Region; to conserve, protect and enhance the natural aspects of regional parks and of landbanked property and buildings; to produce increasing revenue from rentals, concessions and appropriate user fees and charges.

KRA: Recreation Facility Development, Maintenance and Operation

Goal: To develop park facilities in accordance with approved plans and to maintain and operate regional parks facilities to the standard required.

Objectives:

1. Increase staffing as required for provisional 1989 operations at Boundary Bay, Point Grey and Iona Island, dependent upon Board decisions on Year 2000 Plan; add staff resources at Deas Island and Campbell Valley due to increased facilities and visitation; improve seasonal staffing where required to respond to peak loads and stronger off-season use.

2. Provide improved construction supervision for park construction projects.

3. Maintain facility inventories and develop system for more effective time management and maintenance budgeting.

KRA: Public Use Monitoring and Security

Goal: To monitor public use and to assist users where necessary so that the parks are viewed as a safe and secure place in which to recreate and so that facilities are protected.

Objectives:

1. To continue seasonal staffing at Tynehead Park for safety and security purposes.

2. To improve traffic and trail counts for accuracy in measuring visitation and flow.

3. To provide contract security funding and seasonal security patrol where necessary in order to reduce misuse and rowdyism.

4. To monitor brant hunting at Boundary Bay to minimize use conflicts and risks.

5. To consult with equestrian and hiking organizations and implement projects and policies to ensure good trail maintenance and safety.

REGIONAL PARKS

1989 SHORT-TERM OBJECTIVES, Continued

KRA: Revenue Generation

Goal: To provide a secure and growing revenue from concessions and from user fees and other charges to mitigate costs of operating regional parks so that visitors and organizations share the benefits and costs of park services.

Objectives:

1. Review existing and potential user fees and charges for provision of special services and facilities for which out of pocket expenses and/or basic costs should be recovered.
2. Assess concessions to ensure rents represent a fair proportion of gross income and represent a proper recovery of GVRD costs; arrange concession operations if practical at Aldergrove Lake, Capilano and other sites.
3. In lieu of practical fee imposition secure user group support or direct provision of services by them.

KRA: Operations Management

Goal: To manage effectively the physical and human resources of Regional Parks' Operations and Maintenance Section according to Provincial legislation and Regional and Departmental regulations and policies which govern and guide the stewardship of these resources.

Objectives:

1. Improve maintenance methods for maximum staff effectiveness.
2. To provide added clerical assistance to Area Supervisors to increase time available for supervision and trouble-shooting.
3. Improve staff performance and efficiency by in-house training and educational seminars and formal courses.
4. Continue towards computerized operations and maintenance scheduling and monitoring systems.

KRA: Rental Operations

Goal: To maintain and operate park rental properties in a manner which optimizes longer term income and ensures tenant satisfaction while maintaining safe structures in a condition compatible with neighboring communities and park facilities.

REGIONAL PARKS

1989 SHORT-TERM OBJECTIVES, Continued

Objectives:

1. Complete program to upgrade structures to conditions compatible with neighboring communities.

2. Establish 1989 rental rates to fairly reflect market conditions.

3. Seek ways to economically maintain landbanked pasture and farm property in Aldergrove Lake, Campbell Valley, Derby Reach, Matsqui Trail and Tynehead.

4. Assist park operating staff in identifying revenue producing opportunities, such as concessions, special use fees, log booming licenses, etc.

REGIONAL PARKS

1989 SHORT-TERM OBJECTIVES, Continued

PARKS ADMINISTRATION

Purpose Statement

To provide support services (computer, stenographic, clerical and reception) to the Park Department and the Committee; overall supervision of administrative personnel; departmental management and budgeting; liaison with other departments, municipalities and provincial agencies.

KEY RESULTS AREAS (KRA), GOALS AND OBJECTIVES

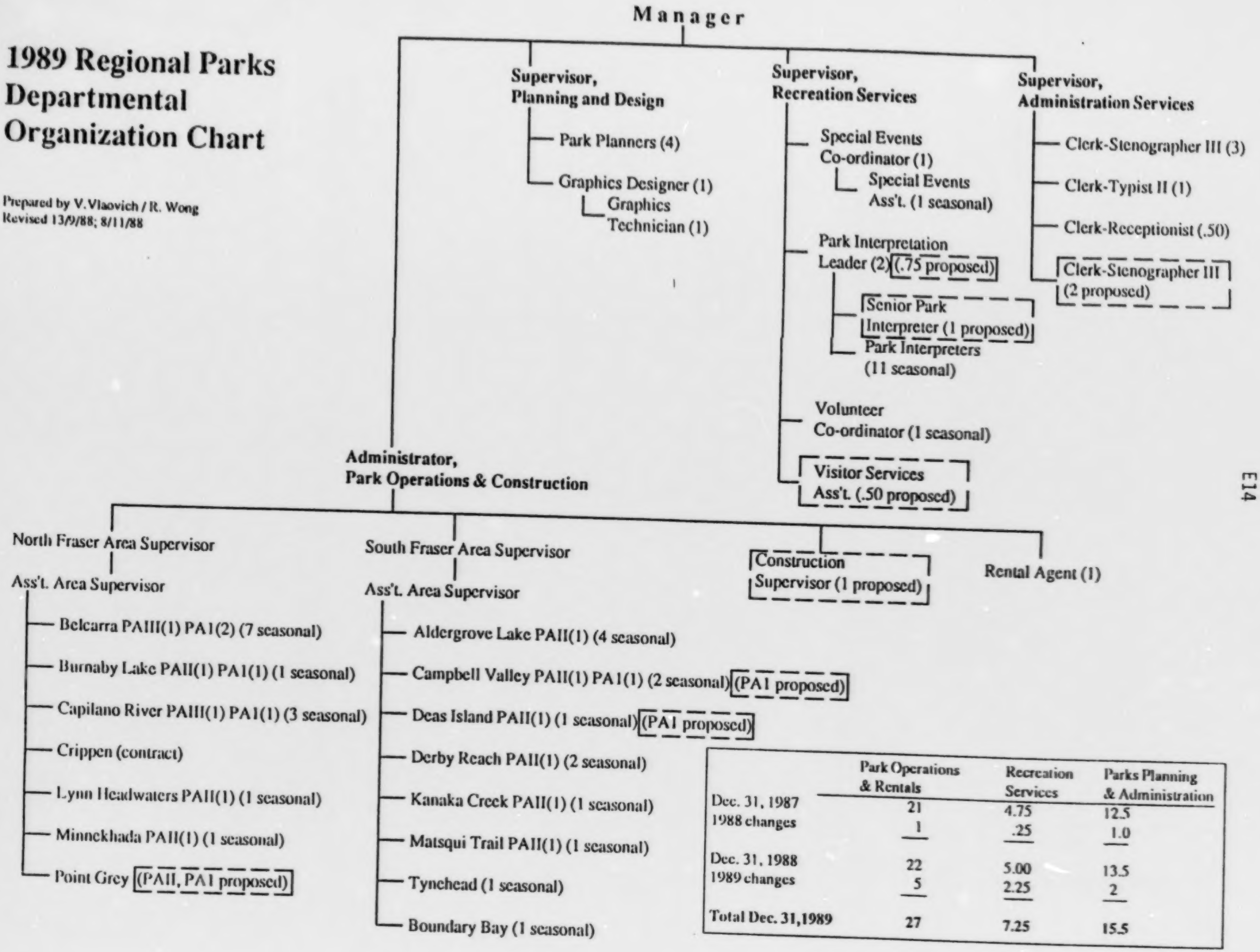
KRA: Departmental administration, budgeting, personnel management and service to the public, the Board and Committee and to other Departments and Municipalities

Objectives

1. Identify and monitor departmental priorities.
2. Implement organization and management systems to facilitate work flow.
3. Provide introduction and training to clerical staff on MacIntosh computers.
4. Provide budget analyses and monthly accounting of capital and operating expenditures.
5. Coordinate and prepare the provisional and final operating budgets.
6. Initiate, review and implement human resource development programs for departmental staff.
7. Establish goals, performance plans and reviews, and action plans for clerical/secretarial staff.
8. Liaise with member municipalities, political representatives and provincial agencies.
9. Assist the department and the public with enquiries and research regarding Regional Parks programs, events and facilities as well as Park Committee agendas and minutes.
10. Prepare agendas and report for monthly Park Committee and Board meetings.
11. Review, develop and implement new or revised office systems and administrative procedures in order to improve efficiency and accommodate departmental requirements and changes in policies and regulations.
12. Plan and control departmental activities and monitor results to plan.

1989 Regional Parks Departmental Organization Chart

Prepared by V. Vlaovich / R. Wong
Revised 13/9/88; 8/11/88


Manager
Supervisor, Planning and Design
Park Planners (4)
Graphics Designer (1)
Graphics Technician (1)
Supervisor, Recreation Services
Special Events Co-ordinator (1)
Special Events Ass't. (1 seasonal)
Park Interpretation Leader (2) (.75 proposed)
Senior Park Interpreter (1 proposed)
Park Interpreters (11 seasonal)
Volunteer Co-ordinator (1 seasonal)
Visitor Services Ass't. (.50 proposed)
Supervisor, Administration Services
Clerk-Stenographer III (3)
Clerk-Typist II (1)
Clerk-Receptionist (.50)
Clerk-Stenographer III (2 proposed)
Administrator, Park Operations & Construction
North Fraser Area Supervisor
Ass't. Area Supervisor
Belcarra PAIII(1) PA1(2) (7 seasonal)
Burnaby Lake PAII(1) PA1(1) (1 seasonal)
Capilano River PAIII(1) PA1(1) (3 seasonal)
Crippen (contract)
Lynn Headwaters PAII(1) (1 seasonal)
Minnekhada PAII(1) (1 seasonal)
Point Grey (PAII, PA1 proposed)
South Fraser Area Supervisor
Ass't. Area Supervisor
Aldergrove Lake PAII(1) (4 seasonal)
Campbell Valley PAII(1) PA1(1) (2 seasonal) (PA1 proposed)
Deas Island PAII(1) (1 seasonal) (PA1 proposed)
Derby Reach PAII(1) (2 seasonal)
Kanaka Creek PAII(1) (1 seasonal)
Matsqui Trail PAII(1) (1 seasonal)
Tynehead (1 seasonal)
Boundary Bay (1 seasonal)
Construction Supervisor (1 proposed)
Rental Agent (1)

	Park Operations & Rentals	Recreation Services	Parks Planning & Administration
Dec. 31, 1987	21	4.75	12.5
1988 changes	1	.25	1.0
Dec. 31, 1988	22	5.00	13.5
1989 changes	5	2.25	2
Total Dec. 31,1989	27	7.25	15.5

GREATER VANCOUVER REGIONAL DISTRICT

Regional Parks
Provisional Revenue and Expenditure Budget
Year Ending December 31, 1989

	Sch	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Revenue					
Members' Tax Requisitions					
- General		$3,805,398	$3,805,398	$4,180,763	
- Crippen Regional Park		256,937	256,937	256,937	
- Special Development Levy		1,300,000	1,300,000	1,300,000	
		5,362,335	5,362,335	5,737,700	+ 7.0
Net Rental Income	E45	169,488	178,895	203,895	
Total Revenue		$5,531,823	$5,541,230	$5,941,595	+ 7.4
Expenditure					
Parks Planning & Administration	E17	$ 801,479	$ 861,648	$ 947,907	+ 18.3
Parks Recreation Services	E25	413,579	417,762	468,730	+ 13.3
Parks Operations	E26	2,004,846	1,950,624	2,294,905	+ 14.5
		3,219,904	3,230,034	3,711,542	+ 15.3
Fiscal Services					
Debenture Debt charges					
- General		569,026	576,063	577,363	
- Crippen Regional Park		256,937	256,937	256,937	
		825,963	833,000	834,300	+ 1.0
Interest on Temporary Borrowing & sundry charges		74,600	22,400	134,100	+ 79.8
Contribution to Capital Funds		1,411,356	1,455,796	1,261,653	- 10.6
		2,311,919	2,311,196	2,230,053	- 3.5
Total Expenditure		$5,531,823	$5,541,230	$5,941,595	+ 7.4

GREATER VANCOUVER REGIONAL DISTRICT

Regional Parks
1989 Provisional Budget
By Object of Expenditure

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$1,852,458	$1,843,760	$2,159,762	
Board vehicles & mileage	247,522	254,824	281,497	
Travel	2,496	1,305	2,592	
Other services	160,878	184,394	212,098	
Legal	5,200	9,800	5,408	
Materials & supplies	163,584	188,850	198,061	
Purchased maintenance & repairs	44,460	31,595	51,430	
Electricity & gas	46,324	44,926	82,021	
Telephone	39,250	45,219	48,794	
Insurance	51,850	56,814	51,850	
Equipment replacement	86,950	97,584	98,763	
Duplicating	18,096	14,844	22,064	
Rent	124,640	124,640	124,640	
Computer operating costs allocated	16,910	15,200	20,600	
Central administrative services allocated	75,900	75,900	100,000	
Corporate services allocated	7,200	15,300	52,500	
Provision for board & committee requests	10,000	15,438	10,000	
Radio communications	31,200	31,417	31,200	
Indirect departmental costs	19,412	27,822	24,955	
Provision for contingency				
(Point Grey)	85,000		85,000	
(Capilano Camp)	10,000	28,375	10,000	
	3,099,330	3,108,007	3,673,235	
Recoveries	(84,300)	(80,723)	(168,613)	
	3,015,030	3,027,284	3,504,622	
Special Events & Activities				
Parks Master Plan	50,000	38,887	50,000	
Provision for special events	122,874	130,852	124,920	
Provision for public information & brochures	25,000	25,000	25,000	
Signs & brochures	7,000	8,011	7,000	
	204,874	202,750	206,920	
	$3,219,904	$3,230,034	$3,711,542	

Note: Excludes rental operations

GREATER VANCOUVER REGIONAL DISTRICT

Parks Planning and Administration
1989 Provisional Budget
by Program

	Sch	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Administration	E19	$154,886	$171,935	$194,843	
Indirect departmental costs	E20	269,484	293,761	354,008	
		424,370	465,696	548,851	
Parks Planning					
Land acquisition & co-ordination	E21	61,403	55,257	54,969	
Park system planning & research	E22	168,274	192,349	179,206	
Park development & implementation	E23	87,432	94,021	104,881	
		317,109	341,627	339,056	
Provision for Parks Master Plan	E24	50,000	38,887	50,000	
Provision for special studies as authorized by the Committee (to be appropriated)	E24	10,000	15,438	10,000	
Total Expenditure		$801,479	$861,648	$947,907	

GREATER VANCOUVER REGIONAL DISTRICT

Parks Planning and Administration
1989 Provisional Budget
By Object of Expenditure

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$426,187	$444,045	$480,568	
Board & rented vehicles	10,510	13,015	12,194	
Mileage	520	1,244	1,404	
Travel	1,040	500	1,082	
Other services	8,476	28,378	13,997	
Legal	5,200	9,800	5,408	
Materials & supplies	13,104	16,726	13,629	
Telephone	17,600	19,765	20,556	
Postage	5,408	7,796	8,032	
Insurance	40,400	38,944	40,400	
Equipment replacement, maintenance & repairs	10,560	20,265	20,635	
Duplicating	17,680	12,358	18,387	
Rent	124,640	124,640	124,640	
Computer operating costs allocated	16,910	15,200	20,600	
Central administrative services allocated	35,950	35,950	52,500	
Corporate services allocated	7,200	15,300	52,500	
Indirect departmental costs allocated	94	3,397	1,375	
Provision for Parks Master Plan	50,000	38,887	50,000	
Provision for Board & Committee requests	10,000	15,438	10,000	
Total Expenditure	$801,479	$861,648	$947,907	

Parks Planning and Administration

Administration Program

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$130,726	$139,682	$164,750	
Board & rented vehicles	5,710	5,105	7,394	
Mileage	208	280	364	
Travel	1,040	500	1,082	
Other services	5,356	6,500	7,120	
Legal	5,200	9,800	5,408	
Materials & supplies	1,664	1,664	1,731	
Postage	208	180	752	
Equipment replacement, maintenance & repairs		2,197		
Duplicating	4,680	5,300	4,867	
Indirect departmental costs allocated	94	727	1,375	
Total Expenditure	$154,886	$171,935	$194,843	

Parks Planning & Administration

Indirect Departmental Costs

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Other services	$ 1,144	$ 9,630	$ 4,622	
Materials & supplies	4,680	8,421	4,867	
Telephone	17,600	19,765	20,556	
Postage	5,200	7,543	7,280	
Insurance	40,400	38,944	40,400	
Equipment replacement, maintenance & repairs	10,560	18,068	20,635	
Duplicating	5,200	300	5,408	
Rent	124,640	124,640	124,640	
Computer operating costs allocated	16,910	15,200	20,600	
Central administrative services allocated	35,950	35,950	52,500	
Corporate Services allocated	7,200	15,300	52,500	
Total Expenditure	$269,484	$293,761	$354,008	

Parks Planning and Administration

Land Acquisition Co-ordination Program

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$60,363	$53,667	$53,684	
Mileage	104	104	312	
Other services	312	312	324	
Materials & supplies	624	624	649	
Indirect departmental costs allocated		550		
Total Expenditure	$61,403	$55,257	$54,969	

Parks Planning and Administration

Park System Planning & Research Program

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$149,330	$159,339	$159,188	
Board & rented vehicles	4,800	7,910	4,800	
Mileage	104	311	416	
Other services	1,248	11,509	1,498	
Materials & supplies	4,992	5,217	5,192	
Duplicating	7,800	6,758	8,112	
Indirect departmental costs allocated		1,305		
Total Expenditure	$168,274	$192,349	$179,206	

Parks Planning and Administration

Park Development and Implementation Program

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$85,768	$91,357	$102,946	
Mileage	104	549	312	
Other services	416	500	433	
Materials & supplies	1,144	800	1,190	
Indirect departmental costs allocated		815		
Total Expenditure	$87,432	$94,021	$104,881	

Parks Planning and Administration

Provision for Special Studies

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Parks Master Plan	$50,000	$38,887	$50,000	
Special studies as authorized by the Committee (to be appropriated)	$10,000	$15,438	$10,000	

GREATER VANCOUVER REGIONAL DISTRICT

Parks Recreation Services
1989 Provisional Budget
By Object of Expenditure

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Nature Interpretation				
Salaries & employee benefits	$254,539	$232,859	$287,644	
Board & rented vehicles	10,452	11,596	11,361	
Other services	12,636	14,734	36,597	
Telephone	300	253	312	
Insurance	250	290	250	
Materials & supplies	7,072	18,185	13,268	
Purchased maintenance & repairs	208	202	208	
Indirect departmental costs	4,548	4,900	3,983	
	290,005	283,019	353,623	
Recoveries	(31,300)	(29,120)	(41,813)	
Total Nature Interpretation	258,705	253,899	311,810	
Special Events & Activities				
Salaries & employee benefits	48,538	45,563	50,638	
Board & rented vehicles	650	19,462	350	
Mileage	364	750	676	
Tuition	416	400	416	
Other services	1,976	23,587	1,871	
Materials & supplies	2,184	7,572	2,184	
Printing	208	1,559	208	
Indirect departmental costs	538	559	577	
	54,874	99,452	56,920	
Provisions	38,000		38,000	
1988 Promotional brochure	30,000	31,400	30,000	
	122,874	130,852	124,920	
Information	25,000	25,000	25,000	
Signs & brochures	7,000	8,011	7,000	
Total Special Events & Activities	154,874	163,863	156,920	
Total Expenditure	$413,579	$417,762	$468,730	

GREATER VANCOUVER REGIONAL DISTRICT

Parks Operations
1989 Provisional Budget
By Program

	Sch	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Management	E28	$ 185,396	$ 191,193	$ 222,848	+ 20.2
Aldergrove Lake	E29	150,154	148,025	161,018	+ 7.2
Belcarra Park	E30	293,219	302,428	337,501	+ 15.1
Boundary Bay	E31	19,584	21,210	20,464	+ 4.5
Burnaby Lake	E32	145,312	154,398	170,148	+ 17.1
Campbell Valley	E33	176,446	173,236	214,411	+ 21.5
Camp Capilano	E34	20,000	28,375	4,387	- 78.1
Capilano River	E35	171,802	168,178	196,788	+ 14.5
Crippen Park	E36	64,318	62,672	75,421	+ 17.3
Deas Island	E37	115,575	118,564	151,578	+ 31.2
Derby Reach	E38	116,995	128,591	132,179	+ 13.0
Kanaka Creek	E39	114,783	119,335	130,629	+ 13.8
Lynn Headwaters	E40	106,792	99,047	123,503	+ 15.6
Matsqui Trail	E41	95,382	90,022	111,328	+ 16.7
Minnekhada	E42	113,457	117,283	125,574	+ 10.7
Point Grey (contingency)	E43	85,000		85,000	
Tynehead	E44	29,591	26,515	31,046	+ 4.9
Capilano Road Maintenance	E44	1,040	1,552	1,082	+ 4.0
Total Expenditure		$2,004,846	$1,950,624	$2,294,905	+ 14.5

GREATER VANCOUVER REGIONAL DISTRICT

Parks Operations
1989 Provisional Budget
By Object of Expenditure

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$1,171,732	$1,166,856	$1,391,550	
Board & rented vehicles	226,040	228,997	256,538	
Other services	131,612	151,795	153,857	
Telephone	21,350	25,201	27,926	
Insurance	11,200	17,580	11,200	
Materials & supplies	143,408	161,464	171,164	
Purchased maintenance & repairs	42,692	30,618	49,600	
Electricity, natural gas & water	46,324	44,926	82,021	
Security	4,618	2,301	4,802	
Equipment replacement	77,950	78,571	79,750	
Indirect departmental costs	14,770	19,525	19,597	
Central administrative services allocated	39,950	39,950	47,500	
Radio communications	31,200	31,417	31,200	
Provision for contingency	95,000	10,000	95,000	
	2,057,846	2,009,201	2,421,705	
Recoveries	(53,000)	(58,577)	(126,800)	
Total Expenditure	$2,004,846	$1,950,624	$2,294,905	

GREATER VANCOUVER REGIONAL DISTRICT

Parks Operations Management

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$ 81,126	$ 76,561	$110,687	
Board & rented vehicles	4,800	6,820	4,800	
Other services	7,520	11,876	2,621	
Telephone	1,000	178	1,040	
Insurance	10,800	10,800	10,800	
Materials & supplies		3,821		
Purchased maintenance & repairs		770	5,200	
Equipment replacement	9,000	9,000	9,000	
Central administrative services allocated	39,950	39,950	47,500	
Radio communications	31,200	31,417	31,200	
Total Expenditure	$185,396	$191,193	$222,848	

PARKS OPERATIONS PROGRAM

Aldergrove Lake Program

Purpose

To operate and maintain Aldergrove Lake Regional Park.

Activities or Level of Service

- Park patrol daily for 12 months (intensive lake safety patrol for 4 months);
- Garbage and litter pick-up daily 8 months, twice weekly for 4 months;
- Lake chlorination daily for 4 months (monitoring, twice daily);
- Toilet maintenance daily for 12 months;
- Operation of water system 12 months;
- Traffic control daily for 4 months;
- Painting and repair of tables, buildings, plumbing, signs, parking lots, trails, bridges and all equipment;
- Weeding of lake area, picnic terraces and road shoulders;
- Supervision and minimum maintenance of parkland not rented or open to public;
- Supervision 12 months.

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$ 99,975	$ 94,352	$107,632	
Board & rented vehicles	16,540	14,933	18,322	
Other services	6,136	5,573	6,381	
Telephone	1,000	1,300	1,040	
Insurance	100	453	100	
Materials & supplies	15,288	14,550	15,899	
Purchased maintenance & repairs	4,160	4,000	4,326	
Electricity, natural gas & water	1,872	1,800	1,947	
Equipment replacement	3,000	9,022	3,000	
Indirect departmental costs	2,083	2,042	2,371	
Total Expenditure	$150,154	$148,025	$161,018	

PARKS OPERATION PROGRAM (continued)

Belcarra Park Program

Purpose

Operation and maintenance of Belcarra Regional Park.

Activities or Level of Service

- Park patrol and public liaison daily for 12 months;
- 24 hour park patrol during high use summer season;
- Traffic and crowd control;
- Monitoring of undeveloped areas including ocean foreshore;
- Continuous litter pickup, building maintenance including washrooms and change rooms;
- Beach cleanup and maintenance;
- Supervision for 12 months;
- Turf and landscape maintenance;
- Maintenance of water systems and sewage systems;
- Monitoring contracted food concessions;
- Road and parking lot maintenance;
- Trail repair and maintenance;
- Playground repair and maintenance;
- Supervision of grant programs and minor construction projects.

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$198,154	$204,741	$227,133	
Board & rented vehicles	30,988	31,479	31,357	
Other services	15,648	14,407	16,272	
Telephone	2,250	2,094	2,340	
Insurance		920		
Materials & supplies	21,112	22,057	30,172	
Purchased maintenance & repairs	4,264	6,800	4,435	
Electricity, natural gas & water	6,760	8,768	10,566	
Security	1,768	1,200	1,839	
Equipment replacement	16,000	13,000	16,000	
Indirect departmental costs	3,275	3,962	4,387	
	300,219	309,428	344,501	
Recoveries	(7,000)	(7,000)	(7,000)	
Total Expenditure	$293,219	$302,428	$337,501	

PARKS OPERATION PROGRAM (continued)

Boundary Bay Program

Purpose

Operation and maintenance of Boundary Bay Regional Park.

Activities or Level of Service

- Park patrol and public liaison	- 4 months
- Maintenance, litter pick-up	- 4 months
- Trail bike and four wheel drive control	- 6 months

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$12,893	$11,976	$13,586	
Rented vehicles & equipment	4,120	7,136	4,180	
Other services	416	348	432	
Materials & supplies	1,664	1,622	1,731	
Indirect departmental costs	491	488	535	
	19,584	21,570	20,464	
Recoveries		(360)		
Total Expenditure	$19,584	$21,210	$20,464	

PARKS OPERATION PROGRAM (continued)

Burnaby Lake Program

Purpose

Operation and maintenance of Burnaby Lake Regional Park and North Fraser Administrative Centre.

Activities or Level of Service

- Park patrol and public liaison - daily for six months
  - five days/week for six months;
- Maintenance and repair of extensive pedestrian and equestrian trail network (majority of which are wet boggy areas);
- Building maintenance;
- Continuous toilet maintenance, litter pickup;
- Parking lot maintenance;
- Turf and landscape maintenance;
- Supervision for 12 months;
- Supervision of grant programs and minor construction projects.

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$ 98,810	$101,453	$108,476	
Board & rented vehicles	18,172	21,833	26,276	
Other services	2,184	2,720	3,831	
Telephone	3,000	5,387	5,200	
Insurance		253		
Materials & supplies	11,076	13,231	11,519	
Purchased maintenance & repairs	1,248	900	1,298	
Electricity, natural gas & water	4,160	3,703	6,614	
Security	541	581	562	
Equipment replacement	5,500	4,537	5,500	
Indirect departmental costs	621	800	872	
	145,312	155,398	170,148	
Recoveries		(1,000)		
Total Expenditure	$145,312	$154,398	$170,148	

PARKS OPERATION PROGRAM (continued)

Campbell Valley Program

Purpose

To operate and maintain Campbell Valley Regional Park.

Activities or Level of Service

- Park and trail patrol daily for 12 months;
- Garbage and litter pickup daily for 6 months; twice weekly for 6 months;
- Grass cutting 24 times annually;
- Daily maintenance on 4 sets of pit toilets and 1 flush toilet building;
- Maintaining and patrol of group camp, group picnic area and equestrian centre, including jumps;
- Maintenance and patrol of 8 km of nature trails and 14 km of horse trails;
- Policing and patrol of 4 hectares heritage site with added building;
- Operation of 2 water systems and 2 hand pumps;
- Liaison with and organizing large groups;
- Painting & repairing tables, buildings, plumbing, signs, boardwalks, bridges and trails;
- Weeding picnic terraces and road shoulders;
- Supervision 12 months.

Alternatives

Reduce staff levels - Park Assistant I for 9 months.

Consequences

Reduced patrol, litter pick-up, painting and security. Reduced security staff and less monitoring of public use.

Decrease in Budget

- Park Assistant I	$19,000
- Benefits	5,000
Total	$24,000

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$109,544	$108,131	$139,688	
Board & rented vehicles	22,540	22,537	24,401	
Other services	7,280	5,956	7,571	
Telephone	2,500	2,300	3,640	
Insurance	300	1,100	300	
Materials & supplies	13,832	15,300	14,385	
Purchased maintenance & repairs	5,200	4,500	5,408	
Electricity, natural gas & water	5,140	3,500	6,906	
Equipment replacement	12,000	12,000	13,800	
Indirect departmental costs	1,110	1,912	1,312	
	179,446	177,236	217,411	
Recoveries	(3,000)	(4,000)	(3,000)	
Total Expenditure	$176,446	$173,236	$214,411	

PARKS OPERATION PROGRAM (continued)

Camp Capilano - Capilano River Park Program

Purpose

To operate a residential camp and programs.

Activities or Level of Service

- Accommodate school and community groups, small seminars on a daily or overnight basis;
- Provide meals and other operating services on a user pay contract basis;
- Provide programs on the environment for interested groups on a user pay contract basis;
- Maintain the Camp, facilities and surrounding landscaped areas;
- Carry out minor repairs as required;
- Supervision for 12 months.

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$	$	$22,515	
Board & rented vehicles			624	
Other services	10,000	22,347	20,208	
Materials & supplies		12,525	9,440	
Purchased maintenance & repairs		477		
Electricity, natural gas & water			11,900	
Indirect departmental costs			1,000	
Provision for contingency	10,000		10,000	
	20,000	35,349	75,687	
Recoveries		(6,974)	(71,300)	
Total Expenditure	$20,000	$28,375	$ 4,387	

PARKS OPERATION PROGRAM (continued)

Capilano River Park Program

Purpose

Operation and maintenance of Capilano River Regional Park.

Activities or Level of Service

- Park patrol and public liaison daily for 12 months;
- Operation of Camp Capilano daily for 12 months;
- Crowd and traffic control on weekends;
- Monitoring undeveloped areas;
- Intense turf and landscape maintenance at Cleveland Dam for eight months;
- Maintenance of two extremely busy washroom facilities;
- Painting and repairing buildings, picnic tables, bridges, safety railings, signs and gates;
- Litter pickup;
- Repair and maintenance of an extensive trail network;
- Supervision for 12 months;
- Hatchery access road and parking lot drainage maintenance;
- Tour bus control and fee collection at Hatchery;
- Supervision of grant programs and minor construction projects.

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$123,810	$119,894	$136,833	
Board & rented vehicles	19,592	18,710	27,921	
Other services	5,096	10,376	5,299	
Telephone	1,050	610	1,092	
Insurance		1,411		
Materials & supplies	13,208	11,531	16,856	
Purchased maintenance	.624	1,761	649	
Electricity, natural gas & water	624	860	2,729	
Security	1,248		1,298	
Equipment replacement	7,500	7,500	7,500	
Indirect departmental costs	2,050	1,525	2,111	
	174,802	174,178	202,288	
Recoveries	(3,000)	(6,000)	(5,500)	
Total Expenditure	$171,802	$168,178	$196,788	

PARKS OPERATION PROGRAM (continued)

Crippen Park Program

Purpose

Operation and maintenance.

Activities or Level of Service

Park patrol and public liaison - daily - 12 months (contract service)
Maintenance of trail network
Painting and repairing tables, signs, bridges, building and water system
Grass cutting - 32 times
Litter pick-up - continuous
Supervision - 12 months
Supervision of grant programs
Building supervision

Patrol, maintenance and security will remain on a contract basis until December 31, 1989.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$16,887	$17,528	$17,758	
Board & rented vehicles	5,720	5,922	5,777	
Other services	33,087	29,706	40,650	
Telephone	950	659	988	
Insurance		623		
Materials & supplies	6,656	7,620	6,923	
Purchased maintenance & repairs	676	500	703	
Electricity, natural gas & water	4,472	4,472	6,731	
Security	520		541	
Equipment replacement	350	312	350	
	69,318	67,342	80,421	
Recoveries	(5,000)	(4,670)	(5,000)	
Total Expenditure	$64,318	$62,672	$75,421	

PARKS OPERATION PROGRAM (continued)

Deas Island Program

Purpose

Supervision. Maintenance of Deas Island Regional Park.

Activities or Level of Service

Park patrol and public liaison - 12 months
Maintenance, litter pick-up - 12 months
Trail bike and four wheel drive control - 6 months
Maintain park facilities - heritage building and gardens and new facilities
Fraser River display and dykes and trails
Grass cutting picnic area maintenance - 12 months

Alternatives

Reduce staff levels.

How

Park Assistant I for 9 months.

Consequences

Reduced patrol, litter pick-up, maintenance and security. Increase in misuse and vandalism in shoulder months, reduced monitoring of public use.

Decrease in Budget

- Park Assistant I	$19,000
- Benefits	5,000
Total	$24,000

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$ 68,222	$ 71,437	$ 96,077	
Board & rented vehicles	16,540	17,000	18,282	
Other services	5,720	5,124	5,948	
Telephone	2,500	2,412	3,640	
Insurance		670		
Materials & supplies	8,528	8,650	8,869	
Purchased maintenance & repairs	3,120	2,500	3,245	
Electricity, natural gas & water	6,240	6,100	10,650	
Equipment replacement	4,000	4,000	4,000	
Indirect departmental costs	705	1,364	867	
	115,575	119,257	151,578	
Recoveries		(693)		
Total Expenditure	$115,575	$118,564	$151,578	

PARKS OPERATION PROGRAM (continued)

Derby Reach Program

Purpose

To operate and maintain Derby Reach Regional Park.

Activities or Level of Service

- Operate overnight camping site, collection of user fees;
- Park patrol daily for 12 months;
- Garbage and litter pickup daily for 12 months;
- Grass cutting 24 times;
- Grass raking 6 times;
- Campsite Pad maintenance daily for 12 months;
- Operation of the water system;
- Painting & repairing tables, 6 toilet buildings, signs, picnic areas, road shoulders & camping pads;
- Liaison with and organizing large fishing derbies;
- Supervision and minimum maintenance of park land not open to public or rented;
- Supervision 12 months.

Alternatives

None.

How

Two Park Assistants I for 4 months instead of 6 months.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$ 81,831	$ 83,299	$ 88,518	
Board & rented vehicles	18,020	17,422	19,802	
Other services	8,864	11,728	12,963	
Telephone	3,000	5,800	4,680	
Insurance		178		
Materials & supplies	11,120	16,122	11,564	
Purchased maintenance	3,120	2,000	3,245	
Electricity, natural gas & water	3,744	3,000	3,894	
Equipment replacement	4,000	4,000	4,000	
Indirect departmental costs	1,296	2,392	1,513	
	134,995	145,941	150,179	
Recoveries	(18,000)	(17,350)	(18,000)	
Total Expenditure	$116,995	$128,591	$132,179	

PARKS OPERATION PROGRAM (continued)

Kanaka Creek Program

Purpose

To operate and maintain Kanaka Creek Regional Park.

Activities or Level of Service

- Park patrol daily for 12 months;
- Garbage and litter pickup daily for 12 months;
- Grass cutting 24 times;
- Raking 6 times;
- Fertilizing twice annually;
- Maintain toilets daily for 12 months;
- Maintenance of the facilities at the fish hatchery;
- Painting, cleaning and repair of tables, signs, trails, safety fences, bridges and all equipment;
- Supervision and minimum maintenance of park land not rented or open to the public;
- Supervision 12 months.

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$ 68,222	$ 73,065	$ 78,622	
Board & rented vehicles	15,520	15,500	17,261	
Other services	8,736	8,660	9,918	
Telephone	2,000	2,000	2,080	
Insurance		744		
Materials & supplies	8,008	7,310	8,327	
Purchased maintenance	3,120	2,000	3,245	
Electricity, natural gas & water	1,872	3,293	3,507	
Equipment replacement	6,600	6,600	6,600	
Indirect departmental costs	705	749	1,069	
	114,783	119,921	130,629	
Recoveries		(586)		
Total Expenditure	$114,783	$119,335	$130,629	

PARKS OPERATION PROGRAM (continued)

Lynn Headwaters Program

Purpose

To operate and maintain Lynn Headwaters Regional Park.

Activities or Level of Service

- Park patrol and public liaison - daily for six months
  - five days/week for six months;
- Maintenance and repair of extensive trail network;
- Painting and repairing of tables, signs, bridges and buildings;
- Maintenance and repair to roadways and parking lots;
- Maintenance of a water system;
- Turf and landscape maintenance;
- Continuous litter pickup and pit toilet maintenance;
- Supervision for 12 months;
- Supervision of grant programs and minor construction projects.

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$ 66,328	$ 61,257	$ 79,067	
Board & rented vehicles	15,304	13,594	17,989	
Other services	4,680	5,258	4,867	
Telephone	1,050	983	1,092	
Insurance		186		
Materials & supplies	9,620	9,833	10,005	
Purchased maintenance & repairs	2,600	290	2,704	
Electricity, natural gas & water	2,600	2,676	2,704	
Equipment replacement	4,000	2,600	4,000	
Indirect departmental costs	610	2,370	1,075	
Total Expenditure	$106,792	$ 99,047	$123,503	

PARKS OPERATION PROGRAM (continued)

Matsqui Trail Program

Purpose

To operate and maintain Matsqui Trail Regional Park.

Activities or Level of Service

- Park patrol daily for 4 months, twice weekly for 8 months;
- Garbage and litter pickup daily for 4 months, twice weekly for 8 months;
- Grass mowing 12 times; Dyke brush maintenance once annually
- Painting & repairs of park signs, tables, trails, gates and toilet buildings;
- Liaison with large groups of fishermen;
- Supervision 12 months.

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$ 62,206	$ 62,047	$ 72,291	
Board & rented vehicles	19,020	17,500	20,742	
Other services	3,224	1,684	3,353	
Insurance		45		
Materials & supplies	6,344	4,747	7,844	
Purchased maintenance & repairs	2,080	1,500	2,163	
Electricity, natural gas & water			2,080	
Equipment replacement	2,000	2,000	2,000	
Indirect departmental costs	508	499	855	
Total Expenditure	$ 95,382	$ 90,022	$111,328	

PARKS OPERATION PROGRAM (continued)

Minnekhada Park Program

Purpose

To operate and maintain Minnekhada Regional Park.

Activities or Level of Service

- Park patrol and public liaison - daily for six months
  - five days/week for six months;
- Maintenance of an extensive trail network;
- Maintenance and operation of Minnekhada Lodge;
- Painting and repairing tables, signs, bridges, buildings and water system;
- Turf and landscape maintenance;
- Continuous litter pickup
- Supervision for 12 months;
- Roadway and parking lot maintenance;
- Supervision of grant programs and minor construction projects.

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$ 66,328	$ 64,327	$ 74,338	
Board & rented vehicles	14,104	13,493	13,541	
Other services	10,232	19,309	10,642	
Telephone	1,050	1,478	1,094	
Insurance		160		
Materials & supplies	12,272	14,050	12,762	
Purchased maintenance & repairs	12,480	2,620	12,979	
Electricity, natural gas & water	8,840	6,669	11,793	
Security	541	520	562	
Equipment replacement	4,000	4,000	4,000	
Indirect departmental costs	610	657	863	
	130,457	127,283	142,574	
Recoveries	(17,000)	(10,000)	(17,000)	
Total Expenditure	$113,457	$117,283	$125,574	

PARKS OPERATION PROGRAM (continued)

Point Grey Regional Park (Contingency)

Purpose

Operate and maintain Point Grey Regional Park.

Activities or Level of Service

- Establish park patrols and public liaison in a new regional park;
- Maintain washrooms - when established;
- Begin to monitor use and user patterns;
- Litter pickup;
- Maintain trails;
- Supervise grant programs;
- Supervise small development programs.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Provision for contingency	$ 85,000	$ 0	$ 85,000	
Total Expenditure	$ 85,000	$ 0	$ 85,000	

PARKS OPERATION PROGRAM (continued)

Tynehead Park Program

Purpose

Supervise, operate and maintain Tynehead Regional Park.

Activities or Level of Service

- Park patrol and public liaison - 6 months.
- Maintain park trails, bridges, boardwalks and parking lot - 6 months.
- Monitor undeveloped areas for illegal use, trail bikes, etc. - 6 months.
- Litter pick-up - 6 months.
- Supervision -12 months.

Alternatives

None.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Labour & employee benefits	$17,396	$16,788	$18,329	
Rented vehicles & equipment	5,060	5,090	5,263	
Other services	2,808	1,960	2,921	
Insurance		37		
Materials & supplies	3,640	1,843	3,786	
Electricity, natural gas & water		85		
Indirect departmental costs	687	712	747	
Total Expenditure	$29,591	$26,515	$31,046	

Capilano Road

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Materials & supplies	$ 1,040	$ 1,552	$ 1,082	
Total Expenditure	$ 1,040	$ 1,552	$ 1,082	

GREATER VANCOUVER REGIONAL DISTRICT

Regional Parks
1989 Provisional Budget
Net Income from Rental Operations
Year ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Rentals	$627,100	$645,000	$651,569	
Expenditure				
Labour & employee benefits	75,586	78,168	77,492	
Property taxes	94,000	95,054	95,200	
Insurance	18,000	15,362	15,150	
Repairs, maintenance, materials, supplies & property rehabilitation	229,300	226,557	224,260	
Legal	3,224	11,072	3,200	
Board vehicles & mileage	2,808	1,500	2,600	
Provision for doubtful accounts	6,000	4,000	6,000	
Central administrative services	14,050	14,000	14,500	
Other services & supplies	6,760	13,163	1,300	
Provision for equipment replacement	500	500	500	
Water, electricity & natural gas	7,384	6,729	7,472	
Total Expenditure	457,612	466,105	447,674	
Net Income	$169,488	$178,895	$203,895	

GREATER VANCOUVER REGIONAL DISTRICT

Parks Source & Application of Capital Funds

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Funds Provided By:				
Balance of funds from prior years	$ (384,704)	$ (379,825)	$	
Contribution from Revenue	1,411,356	1,455,796	1,261,653	
Temporary capital borrowing	800,848	264,529	1,369,347	
Net proceeds from disposal of surplus property	480,000	57,000	450,000	
Total	2,307,500	1,397,500	3,081,000	
Funds Applied To:				
Principle portion agreement for sale	127,500	127,500		
Property acquisition	1,185,000	574,000	2,045,000	
Park Development	995,000	696,000	1,036,000	
Total	2,307,500	1,397,500	3,081,000	
Funds on hand carried to following year	$ NIL	$ NIL	$ NIL	

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GREATER VANCOUVER REGIONAL DISTRICT

DEVELOPMENT SERVICES
SUMMARY OF INCREASES OF 1989
EXPENDITURES OVER 1988 FINAL BUDGET

1988 Final Budget	$ 870,000
Change in Level of Service	261,530
Inflation	18,300
1989 Provisional Budget	$1,149,830

DEVELOPMENT SERVICES

Long-Term and Ongoing Role

In 1988, the Greater Vancouver Regional District received Supplementary Letters Patent to provide advisory development services to participating municipalities. For most municipalities, this arrangement replaces the contract service which existed between 1983 and 1988.

Development services include research, forecasting and intermunicipal co-ordination in demographics, transportation, economic development and other aspects of regional development within the overall context of the Livable Region Program.

1989 Short-Term Objectives

1. To complete and implement the economic strategy for Greater Vancouver.

2. To establish a planning process for transportation improvements involving municipalities, provincial and federal agencies.

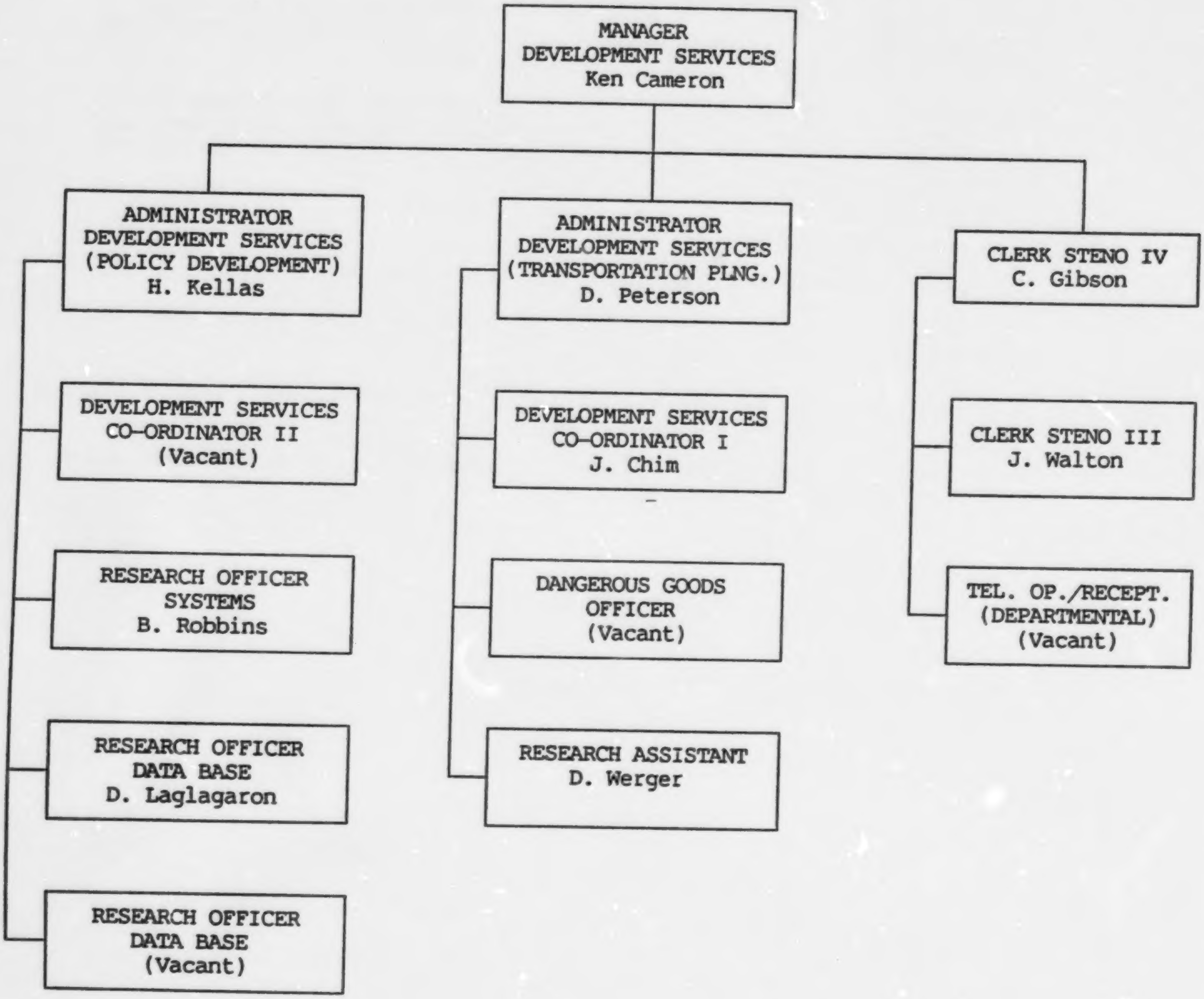
3. To co-ordinate local government's contribution to the implementation of the Transportation of Dangerous Goods report.

4. To continue to improve the range and accessibility of information and assistance available to municipalities.

F2

DEVELOPMENT SERVICES

Departmental Organization Chart



Telephone Operator/Receptionist shared with Parks

	APPROVED NUMBERS	ACTUAL
December 31, 1987	8.5	8.5
1988 changes	1.0	1.0
September 1, 1988	9.5	9.5
1989 changes	3.0	
TOTAL December 31, 1989	12.5	

GREATER VANCOUVER REGIONAL DISTRICT

Development Services
Provisional Revenue and Expenditure Budget
Year ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Revenue				
Members' tax requisitions	$	$	$1,132,014	
Provincial Grant		37,500		
Recoveries from member municipalities under Development Services Agreements	870,000	870,000	17,816	
Other Revenues		48,385		
Total Revenue	$870,000	$955,885	$1,149,830	+32.2
Expenditure				
Research & Policy Development	$	$	$ 154,478	
Economic Development			192,338	
Transportation Planning			174,729	
Information Requests			108,742	
Database Maintenance Development			130,436	
Total Program Costs	500,000	573,654	760,723	+52.1
Administration	100,000	119,656	79,857	-20.1
Indirect departmental costs	270,000	262,575	309,250	+14.5
	370,000	382,231	389,107	+ 5.2
Total Expenditure	$870,000	$955,885	$1,149,830	+32.2

GREATER VANCOUVER REGIONAL DISTRICT

Development Services
1989 Provisional Budget
by Object of Expenditure

Expenditure	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$354,500	$438,276	$ 549,880	
Mileage, travel and board vehicles	6,000	10,373	12,500	
Legal	1,000	1,000	1,000	
Consultants	168,200	165,073	227,000	
Materials, supplies & other services	66,100	64,807	34,900	
Duplicating services	14,000	10,300	12,000	
Rent	81,100	81,100	95,000	
Postage	5,300	2,553	3,000	
Telephone	7,600	11,997	12,000	
Equipment replacement & maintenance	42,800	46,901	55,500	
Publications	3,800	3,000	3,000	
Central administrative services	19,600	21,200	38,300	
Computer services	94,600	93,595	100,000	
Corporate Services allocated	5,400	5,710	5,750	
Total Expenditure	$870,000	$955,885	$1,149,830	

DEVELOPMENT SERVICES

1. REGIONAL RESEARCH AND POLICY DEVELOPMENT

Purpose

To undertake research on regional development trends and prospects; to prepare regional development strategies; to communicate the results of this work through technical memoranda, bulletins, seminars and other means.

Activities

1. Complete the Livable Region Strategy review undertaken in 1988. Discuss the draft strategy with municipalities. Seek endorsement of a Livable Region Strategy for the 1990's.
2. Undertake research arising from questions raised during preparation and review of a Livable Region Strategy for the 1990's.
3. Prepare subregional and traffic zone forecasts for population and households. Prepare metropolitan, subregional and traffic zone labour force forecasts. Review, and update if required, regional and traffic zone employment forecasts.
4. Monitor and research regional development trends including population and household characteristics, commercial and industrial construction, and land use.
5. Prepare and distribute bulletins on regional development trends and prospects to municipalities, government agencies and subscribers.
6. Undertake minor studies as required to support the activities of Development Services committees.

2. REGIONAL ECONOMIC DEVELOPMENT SERVICES

Purpose

To undertake projects designed to increase the effectiveness of economic development efforts on behalf of Greater Vancouver; to prepare strategies providing a framework for economic development activity.

Activities

1. Complete printing of the Greater Vancouver economic development brochure prepared in 1988. Prepare and implement a distribution plan.
2. Prepare a Greater Vancouver socioeconomic profile document as a companion to the regional economic development brochure.
3. Prepare and distribute quarterly Greater Vancouver economic monitoring bulletins.

DEVELOPMENT SERVICES

4. Implement approved actions arising from the Greater Vancouver Economic Strategy prepared in 1988. The Economic Strategy sets out six regional economic development services which could be carried out by the GVRD and a number of specific actions. A significant start would be made on implementing the actions. Projects may include:

   - Organizing meetings with Greater Vancouver Members of Parliament and Members of the Legislative Assembly to discuss the region's economic needs.

   - Developing the implementing an intermunicipal strategic cities plan to gain maximum advantage from sister city relationships through sharing experiences and contacts.

   - Creating and supporting a mechanism for ensuring communication among Greater Vancouver's "champion agencies" in economic development. This may involve formation of a Greater Vancouver Economic Council or the sponsorship of symposia on the region's economy.

   - Supporting local government economic development marketing initiatives through providing services which can be more effectively carried out jointly. This may include organizing intermunicipal representation in selected trade shows and trade missions.

   - Creating task forces for particular industry sectors to identify intermunicipal actions which could improve the climate for business development.

   - Contributing to the preparation of a Greater Vancouver Tourism Development Strategy.

5. Provide support for an intermunicipal committee of economic development officers.

6. If required, administer a municipal contribution to Tourism Vancouver's destination marketing program, including the development and monitoring of contracts, and the coordination of municipal involvement.

7. Maintain liaison with government economic development agencies at the federal, provincial and local levels, and private sector associations.

3. TRANSPORTATION PLANNING

Purpose

To undertake and/or participate in the formulation and analysis of Regional transportation policies and strategies; to assist in the analysis of transportation policies or issues of multi-municipal importance by providing research, consultative, or coordinative services; to support and fund local governments' participation, through the GVRD, in the activities of the tri-level body that is to be structured and charged with implementing the recommendations of the Transport of Dangerous Good Study.

DEVELOPMENT SERVICES

Activities

1. Determine structure and process for evaluating proposed roadway and public transit capital projects. Consultation with and participation of municipal staff will be an important part of the process. Notwithstanding the importance of Provincial participation in and support for the process, it is not known at this time how or whether Provincial involvement may be forthcoming.

2. Proceed with the evaluation of transportation capital projects and of alternative strategies and scenarios. Secure provincial and municipal review of evaluation outcome and incorporate preferred strategies in the Livable Region Plan document.

3. Undertake research into issues or problems which are shared by or common to several GVRD municipalities, as requested by the Board on the GVRD Advisory Committee. (Recent examples have included the issues of transit funding and organization and taxi regulation.)

4. Undertaken follow-up studies and activities regarding goods movement issues, as may be called for in the Fall '88 symposium on urban trucking.

5. Assist in the program and activities of the Tri-level Advisory Committee the establishment of which was recommended by the Transport of Dangerous Goods Study. The role of the Council is to oversee the implementation of the Study's recommendations and to monitor dangerous goods movement in the Region.

4. INFORMATION REQUESTS

Purpose

To respond to requests and inquiries from GVRD, municipal and other clients regarding the demographic, land use, economic and transportation data and forecasts that are maintained by the Department; to assist clients in understanding and working with the data and forecasts, including assisting them in achieving direct computer-to-computer access to the data bases and in using and understanding the Department's forecasting models.

Activities

1. Respond to requests or inquiries from GVRD and municipal clients regarding the Department's data bases and forecasting models.

2. Respond to requests or inquiries from federal and provincial ministries and agencies, businesses and the public.

3. Assist municipal clients and others in developing their expertise and capacity to address the Department's data bases and to work with its forecasting tools (notably the transportation model) in the conduct of their own research and analysis.

DEVELOPMENT SERVICES

4. Respond to inquiries from municipal clients and others on matters relating to the storage and transport of dangerous goods. (The Transport of Dangerous Goods Study has recommended that GVRD Development Services assume responsibility for updating and maintaining the data bases that were assembled by the Study and for responding to enquiries regarding that information.)

5. DATA BASE MAINTENANCE AND DEVELOPMENT

Purpose

To maintain and develop information on Greater Vancouver, including data on population, land use, the economy and transportation, as required by the GVRD, member municipalities and the public; to maintain computer systems to efficiently store and retrieve data; to maintain and develop computer models for forecasting regional development trends, including population and transportation; to provide direct computer access to data bases and models by GVRD departments, municipalities and other users.

Activities

1. Maintain and update demographic, land use, economic and transportation data. _ This includes maintaining the commercial/industrial floorspace inventory from building development records, updating the commercial/industrial building inventory from 1989 assessment records, inputting monthly data on housing starts, migration, employment and labour force, and incorporating new traffic counts.
2. Acquire data as required by the GVRD and member municipalities, including special tabulations of census data, economic monitoring information, and development activity data.
3. Maintain and improve computer software to facilitate remote access to data bases by municipalities and other users.
4. Maintain and develop the EMME/2 transportation model including updating calibration, adding new screenline data, and developing of subarea models.
5. Maintain and develop the Geographic Information System including extending the use through development of new model applications and links to other computer systems.
6. Support the activities of municipal information system and transportation staff through facilitating intermunicipal liaison.
7. Improve materials providing a guide to development information resources, and undertake discussions with municipal staff and others to highlight the resources available and the methods of access.

DEVELOPMENT SERVICES

6. DEVELOPMENT SERVICES ADMINISTRATION

Purpose

To provide for the management of the Development Services Department and the Department's share of GVRD central services.

Activities

1. To provide programming, planning, budgeting and management for the Department.
2. To provide administrative support for Development Services advisory committees.
3. To pay for rent, computer services, financial administration, personnel and other central GVRD services.

"G"

GREATER VANCOUVER REGIONAL DISTRICT

E911 EMERGENCY TELEPHONE SYSTEM

Summary of Increase in 1989 Expenditures over 1988 Final Budget

1988 Final Budget	$ NIL
New Program	210,800
1989 Provisional Budget	$210,800

E9-1-1 PROJECT

Long-Term and On-going Role

In May, 1988, the G.V.R.D. was granted Supplementary Letters Patent to enable it to operate an E9-1-1 Emergency Telephone system. Since 1967, 9-1-1 has been the 3-digit code designated for accessing emergency service agencies. The spread of the use of 9-1-1 over the North American continent has been steady since then. The area to be serviced by the system will cover all of the G.V.R.D. as well as the municipalities of Pitt Meadows and Maple Ridge.

1989 Plans

The project team from the G.V.R.D. has been working with B.C. Tel during 1988 to inventory the present police and fire emergency number answering facilities and to determine operating practices for the G.V.R.D. 9-1-1 system. Equipment to operate the system will be ordered in early 1989 and will be installed and tested during the fall. Estimated start-up date for the entire system is mid-February, 1990.

The primary tasks of the E9-1-1 design team for 1989 are to ensure that the system is adequately designed such that there are a minimum of operational problems when the service begins operation, and that the project proceeds on the established schedule. The design team will be working with the police and fire departments and with B.C. Tel to identify those areas of the region for which 9-1-1 service is not easily connected and to design the system such that it handles these anomalies.

Secondary goals will be to ensure that the database of telephone subscriber name and address is properly configured to satisfy the police and fire departments; to establish procedures for operation of the municipal 9-1-1 centres; to ensure that the G.V.R.D. 9-1-1 system integrates with the computer-aided dispatch system in use in the City of Vancouver and proposed for all R.C.M.P. detachments.

In the fourth quarter, the design team will be working with B.C. Tel to produce an advertising campaign to introduce the public to the system. Care will be taken to clearly define when the public is to call 9-1-1; what constitutes "an emergency" will be negotiated with the participating police and fire departments and one definition will be used for all advertising.

GREATER VANCOUVER REGIONAL DISTRICT

E911 Emergency Telephone System
Provisional Revenue and Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Revenue				
Members' tax requisitions	$	$	$210,800	
Surplus from previous year				
	$	$	$210,800	
Expenditure				
E911 Program	$	$	$210,800	
Surplus carried forward		$		

GREATER VANCOUVER REGIONAL DISTRICT

E911 Emergency Telephone System
1989 Provisional Budget
By Object of Expenditure

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Salaries & employee benefits	$	$	$ 35,470	
Board vehicles			5,200	
Other supplies & services			10,000	
Indirect departmental costs			5,730	
Debt charges			9,500	
S795 Reserve			144,900	
	$	$	$210,800	

"H"

GREATER VANCOUVER REGIONAL DISTRICT

ELECTORAL AREAS
SUMMARY OF INCREASES OF 1989
EXPENDITURES OVER 1988 FINAL BUDGET

1988 Final Budget			$506,636
Operating Expenses			
Change in Level of Service			
Electoral Area "C"			
- Administration	$ 11,884		
- Recreation Services	19,650		
- Bowen Island Public Library Association	(4,500)		
	27,034		
No planned elections for next year	(23,606)		
Increased building inspection volume	14,000		
		$17,428	
New Program			
Snug Cove Sewage System		3,000	
Inflation		12,252	
			32,680
Debt Charges			
Snug Cove Sewage System		16,500	
Bowen Island Recreation Services		(1,128)	
			15,372
1989 Provisional Budget			$554,688

GREATER VANCOUVER REGIONAL DISTRICT

Electoral Area Functions
Provisional Revenue and Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	% Change over 1988 Final Budget
Revenue				
Tax requisitions	$456,754	$458,721	$494,573	+ 8.3
Other Revenue	15,000	34,500	25,000	+66.7
Surplus from previous year	34,882	34,882	35,115	+ 2.4
Total Revenue	$506,636	$528,103	$554,688	+ 9.5
Expenditure				
Operating expenses	$308,468	$296,198	$341,148	+10.6
Fiscal services	198,168	196,790	213,540	+ 7.8
Total Expenditure	$506,636	$492,988	$554,688	+ 9.5
Surplus carried to following year		$ 35,115		

ELECTORAL AREA FUNCTIONS

Allocated to all Electoral Areas

Election and Enumeration Expenses

Purpose

The Regional District, under the Municipal Act, is required to prepare, update or review the voters lists for its three Electoral Areas, and to undertake the holding of elections for Electoral Area Directors and Islands Trustees. These elections are held at the same time and in the same manner as the November municipal elections.

Activities or Level of Service

Enumeration of voters may be carried out on a house-to-house basis in more settled areas although this is usually waived by Board resolution. Deputy Registration Officers are appointed to accept registrations in the Electoral Areas. Expenses include advertising as required under the Municipal Act.

The Court of Revision, appointed by the Board, certifies the voters lists for use in elections of Electoral Areas Directors, Islands Trustees and School Trustees.

Elections are held every three years for Directors in the three Electoral Areas and for Islands Trustees in Electoral Area "C" and part of Electoral Area "B". Expenses include staffing the polls (using mainly temporary help), rentals of school facilities and equipment, printing of forms and ballots, mileage and some travel costs. Advertising expenses are incurred as a result of the statutory requirement to publish notices in the local press. Expenses incurred for Islands Trust elections are reimbursed by the Province.

In 1988, the GVRD conducted the election for two local Island Trustees for Bowen Island. Co-operation with the District of West Vancouver in administration of a joint election for Island Trustees and School Board Trustees has resulted in greater efficiency and cost-saving.

U.B.C.M. and Other Expenses

Purpose

This account covers expenses relating to participation by Electoral Area Directors in the U.B.C.M., including membership dues and registration.

GREATER VANCOUVER REGIONAL DISTRICT

Electoral Area Functions
Allocated to All Electoral Areas
Provisional Revenue and Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions	$ 7,700	$ 7,700	$(14,506)	
Recoveries	5,000	7,500		
Surplus from previous year	12,906	12,906	17,006	
Total Revenue	$25,606	$28,106	$ 2,500	
Expenditure				
Election and enumeration expenses				
Allocated from Secretariat	$11,506	$ 3,300	$ 0	
Other services	6,600	3,600	0	
Materials & supplies	500	500	0	
Temporary help	5,000	1,200	0	
	23,606	8,600	0	
U.B.C.M. & other expenses	2,000	2,500	2,500	
Total Expenditure	$25,606	$11,100	$ 2,500	
Surplus carried to following year		$17,006		

ELECTORAL AREA FUNCTIONS

General Expenses - Electoral Area "A"

Purpose

To provide funds for expenditures on minor works and for information mailing initiated by the Area Directors.

Activities or Level of Service

General expenses are specifically provided for under Supplementary Letters Patent to permit Directors to have expenditures incurred in their area in respect to minor works such as garbage bins for beaches, bus shelters, rest benches and related purposes as well as providing residents with information letters and mailings.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions	$ 177	$ 177	$ 500	
Surplus/(Deficit) from previous year	2,323	2,323	2,000	
Total Revenue	$ 2,500	$ 2,500	$ 2,500	
Expenditure				
General expenses	$ 2,500	$ 500	$ 2,500	
Surplus carried to following year		$ 2,000		

ELECTORAL AREA FUNCTIONS

Electoral Area "B" Advisory Planning Commission

Purpose

Under Section 955 of the Municipal Act, the Regional District may establish Advisory Planning Commissions (A.P.C.'s) in the Electoral Areas.

Activities or Level of Service

The APC provides local input into the local planning function for which the Board is responsible in Electoral Area "B". In recent years the level of activity has declined as a result of the incorporation of parts of Electoral Area "B" into the City of Port Moody and the Village of Anmore.

Local Planning - Electoral Area "B"

Purpose

To provide local planning services to Electoral Area "B".

Activities or Level of Service

Routine administration.

GREATER VANCOUVER REGIONAL DISTRICT

Electoral Area Functions
Electoral Area "B"
Provisional Revenue & Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions	$13,259	$13,259	$ 9,498	
Surplus from previous year	243	243	4,002	
Total Revenue	$13,502	$13,502	$13,500	
Expenditure				
Advisory Planning Commission	$ 2,502	$ 500	$ 2,500	
Planning - Local	11,000	9,000	11,000	
Total Expenditure	$13,502	$ 9,500	$13,500	
Surplus carried to following year		$ 4,002		

ELECTORAL AREA FUNCTIONS

Electoral Area "B" Administration

Purpose

To provide for the general administration of Electoral Area matters in Electoral Area "B".

Activities or Level of Service

Activities include liaison with and staff support to the Area Director and the Electoral Areas Committee; provision of information to the public on request; administration of the Board of Variance; and budget preparation, together with routine guidance of community development through administration of regulatory bylaws and responses to senior government referrals. In 1989 a study of options for local service delivery will be conducted with assistance of a grant from the Ministry of Municipal Affairs for 100% of the costs.

General Expenses - Electoral Area "B"

Purpose

To provide funds for expenditures on minor works and for information mailing initiated by the Area Directors.

Activities or Level of Service

General expenses are specifically provided for under Supplementary Letters Patent to permit Directors to have expenditures incurred in their area in respect to minor works such as garbage bins for beaches, bus shelters, rest benches and related purposes as well as providing residents with information letters and mailings.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions	$28,890	$28,890	$34,483	
Surplus from previous year	127	127	(1,983)	
Total Revenue	$29,017	$29,017	$32,500	
Expenditure				
Administration				
Salaries & employee benefits	$19,255	$19,026	$22,940	
Other Services	7,262	10,974	7,060	
	26,517	30,000	30,000	
General Expenses	2,500	1,000	2,500	
Total Expenditure	$29,017	$31,000	$32,500	
(Deficit) carried to following year		$(1,983)		

ELECTORAL AREA FUNCTIONS

Bowen Island Garbage Removal

Purpose

A Specified Area was established on Bowen Island twelve years ago for the purposes of providing a garbage pickup service and for the disposal of that garbage. A uniform parcel tax on developed residential property has been established to pay all costs for this service.

Activities or Level of Service

The GVRD contracts for the pickup and disposal service for garbage with a private contractor. In 1988 a contract for five years was awarded by tender to the present contractor. This contract will come into effect on January 1, 1989.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions	$71,027	$72,994	$73,633	
Surplus/(Deficit) from previous year	1,873	1,873	6,867	
Total Revenue	$72,900	$74,867	$80,500	
Expenditure				
Contract services	$67,300	$66,390	$74,900	
Other services	5,600	1,610	5,600	
Total Expenditure	$72,900	$68,000	$80,500	
Surplus carried to following year		$ 6,867		

ELECTORAL AREA FUNCTIONS

Electoral Areas Building Inspection

Purpose

To provide building inspection services to Electoral Areas "B" and "C".

Activities or Level of Service

Building inspection services have been provided on site on two days a week for Bowen Island and on one afternoon a week in Electoral Area "B". The office hours for the inspector have been Monday mornings and on Fridays. Other times, messages are taken for return telephone calls.

Twenty-five hours a week has been allowed for the Building Inspector's time. The Building Inspector has been on a contract basis for the past four years. With the incorporation of Anmore and the annexation of Ioco by Port Moody, the area, tax base and service levels for this function are considerably reduced.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions	$11,704	$11,704	$ 4,527	
Building inspection fees & other revenue	10,000	27,000	25,000	
Surplus from previous year	(2,231)	(2,231)	4,473	
Total Revenue	$19,473	$36,473	$34,000	
Expenditure				
Salaries & employee benefits	$ 383	$ 385	$ 910	
Consultants	10,000	23,500	24,000	
Other services	4,890	4,843	4,890	
Building rental allocated	1,200	1,200	1,200	
Legal	3,000	2,072	3,000	
Total Expenditure	$19,473	$32,000	$34,000	
Surplus carried to following year		$ 4,473		

ELECTORAL AREA FUNCTIONS

Electoral Area "C" Administration

Purpose

To provide for the general administration of electoral area matters on Bowen Island.

Activities or Level of Service

General administration includes liaison with the Area Director, providing information to the public on request, administration and enforcement of by-laws and various other matters.

The budget for this function also includes secretarial services supplied by Development Services and reception services shared with the Development Services and Park Departments.

Electoral Area "C" Noise By-law

Purpose

To administer By-law 519, a by-law for the regulation of community noise in Electoral Area "C".

Activities or Level of Service

A Bylaw for the regulation of community noise was finalized in June of 1985 and is enforced by the R.C.M.P. The 1988 Budget allows for administrative costs and legal fees.

ELECTORAL AREA FUNCTIONS

Electoral Area "C" Dog Control By-law

Purpose

Under Supplementary Letters Patent, the Board has enacted a Bylaw "to regulate the keeping of dogs...on Bowen Island".

Activities or Level of Service

An agreement has been entered into with SPCA to provide for an "on-call" service to pick up dogs running at large, as well as a pound service.

The budget provides for paying the SPCA for their service and for an amount for administrative time and possible legal costs.

It is proposed to reinstate a licensing system on January 1, 1989 to assist with Dog Control enforcement. The costs of this service will be offset entirely by license fees.

Bowen Island Recreation Commission

Purpose

Under Supplementary Letters Patent, the Board provides recreational programs for Electoral Area "C".

Under this authority, GVRD has established the Electoral Area "C" Recreation Commission with power to organize and conduct a recreational program.

Additional funds proposed for 1989 are to cover annualized costs of recreation staff and to permit short-term space rental for community programs.

Activities or Level of Service

A co-ordinator has been retained to develop and operate the recreational program under the direction of the Recreation Commission. A monthly fee for service is paid to the co-ordinator.

The major part of the program involves classes held at the Community School/Recreation Centre. Fees charged for these classes cover the costs of instructors, materials, etc. These fees and costs are not included in this budget.

ELECTORAL AREA FUNCTIONS

Grants in Aid of Community Services

Purpose

To provide grants under Sections 770(3), 770(4) and 791(1) of the Municipal Act for the support of the Bowen Island Public Library Association's library operations in Electoral Area "C" and the maintenance of the softball field.

Activities or Level of Service

In previous years this allocation has been used entirely to support the Bowen Island Library. In 1989 it is proposed to reduce the grant to the Library Association and to provide for a small grant to provide needed maintenance of the community softball field.

General Expenses - Electoral Area "C"

Purpose

To provide funds for expenditures on minor works and for information mailing initiated by the Area Directors.

Activities or Level of Service

General expenses are specifically provided for under Supplementary Letters Patent to permit Directors to have expenditures incurred in their area in respect to minor works such as garbage bins for beaches, bus shelters, rest benches and related purposes as well as providing residents with information letters and mailings.

GREATER VANCOUVER REGIONAL DISTRICT

Electoral Area Functions
Allocated to Electoral Area "C"
Provisional Revenue and Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions				
Administration	$49,402	$ 49,402	$ 63,884	
Noise Control	585	585	322	
Dog Control	4,791	4,791	3,072	
Recreation Commission	18,918	18,918	39,650	
Grants in Aid	10,958	10,958	7,000	
General Expenses	1,657	1,657	1,000	
	86,311	86,311	114,928	
Surplus/(Deficit) from previous year				
Administration	(6,286)	(6,286)	(8,884)	
Noise Control	343	343	678	
Dog Control	1,337	1,337	3,128	
Recreation Commission	5,932	5,932	4,850	
Public Library Assoc.	42	42	(500)	
General Expenses	843	843	1,500	
	2,211	2,211	772	
Total Revenue	$88,522	$ 88,522	$115,700	
Expenditure				
Administration				
Salaries & employee benefits	$45,623	$ 31,044	$ 25,695	
Consultants		22,713	31,000	
Legal	1,500	245	1,500	
Other services	3,993	6,918	4,805	
Rent	5,000	4,080	5,000	
Recoveries	(13,000)	(13,000)	(13,000)	
	43,116	52,000	55,000	
Noise Control	928	250	1,000	
Dog Control	6,128	3,000	6,200	
Recreation Commission	24,850	20,000	44,500	
Grants in Aid	11,000	11,500	6,500	
General Expenses	2,500	1,000	2,500	
Total Expenditure	$88,522	$ 87,750	$115,700	
Surplus/(Deficit) carried to following year:				
Administration		$ (8,884)		
Noise Control		678		
Dog Control		3,128		
Recreation Commission		4,850		
Public Library Assoc.		(500)		
General Expenses		1,500		
		$ 772		

ELECTORAL AREA FUNCTIONS

Cove Bay Public Utility - Specified Area

Purpose

To pay for the capital costs of reconstruction and upgrading of a water supply and distribution system for the specified area.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax Requisitions	$136,380	$136,380	$136,759	
Surplus/(Deficit) from previous year	777	777	399	
Total Revenue	$137,157	$137,157	$137,158	
Expenditure				
Debt Charges	$129,339	$129,340	$129,340	
Other Services	7,818	7,418	7,818	
Total Expenditure	$137,157	$136,758	$137,158	
Surplus carried to following year		$ 399		

ELECTORAL AREA FUNCTIONS

Snug Cove Sewage System - Specified Area

Purpose

To pay for the capital costs of construction of a sewage treatment system for the specified area.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions			$19,500	
Total Revenue			$19,500	
Expenditure				
Debt Charges			$16,500	
Other Services			3,000	
Total Expenditure			$19,500	

ELECTORAL AREA FUNCTIONS

Fire Regulations - Defined Area, Electoral Area "B"

Purpose

By Supplementary Letters Patent issued in January 1980, the GVRD was granted the power to enact Fire Regulations in the Village of Belcarra and the Defined Portion of Electoral Area "B". Amendments to the letters patent will be required to reflect the restructuring of local government within the subject area.

Activities or Level of Service

Bylaw #352 establishes the regulations and provides for the issuance of burning permits. The Bylaw is administered by members of the Sasamat Volunteer Fire Department, who issue permits. Enforcement is by the RCMP.

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions	$ 80	$ 80	$ 100	
Surplus from previous year	220	220	200	
Total Revenue	$ 300	$ 300	$ 300	
Expenditure				
Administration	$ 300	$ 100	$ 300	
Total Expenditure	$ 300	$ 100	$ 300	
Surplus carried to following year		$ 200		

ELECTORAL AREA FUNCTIONS

Sasamat Volunteer Fire Department

Purpose

Through Supplementary Letters Patent, the GVRD established the Sasamat Volunteer Fire Department (SVFD) to provide Fire Protection and Accident Emergency service to the Village of Belcarra and a Defined Portion of Electoral Area "B". This Defined Portion includes the area incorporated as the new Village of Anmore and the area annexed to Port Moody (Ioco). Amendments will be required to the Letters Patent and the authorization by-law to reflect the restructuring of local government within the subject area. This has been defined in the memorandum of agreement between Port Moody, the Electoral Area "B" Director and the Deputy Minister of Municipal Affairs.

Activities or Level of Service

The SVFD comprises 28 volunteers, 2 firehalls (one in Belcarra and one in Anmore), 2 tanker trucks, 1 pumper truck and 1 rescue-and-safety van. The Department responds to approximately 35 to 40 call-outs per year, of which roughly 60% are fire calls and 40% are motor vehicle related accidents.

GREATER VANCOUVER REGIONAL DISTRICT

Sasamat Volunteer Fire Department
Provisional Revenue & Expenditure Budget
Year Ending December 31, 1989

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions	$73,563	$73,563	$88,080	
Surplus from previous year	14,517	14,517		
Total Revenue	$88,080	$88,080	$88,080	
Expenditure				
Administration	$ 6,700	$ 6,700	$ 6,700	
Equipment Replacement & Maintenance	19,700	19,700	19,700	
Communications	2,500	2,500	2,500	
Fire Hall Operations	6,330	6,330	6,330	
Insurance	3,500	3,500	3,500	
Volunteer Expenses	6,000	6,000	6,000	
Financial services	4,100	4,100	4,100	
	48,830	48,830	48,830	
Fiscal Services				
Debt Charges	22,400	22,400	22,400	
Contribution to Capital Reserve Fund	16,850	16,850	16,850	
	39,250	39,250	39,250	
Total Expenditure	$88,080	$88,080	$88,080	

ELECTORAL AREA FUNCTIONS

Electoral Area "C" - Recreation Services Specified Area

Purpose

To pay for the capital costs of construction of a portion of the Community School/Recreation Centre on Bowen Island used for recreation purposes.

The debt charges for the construction of the Bowen Island Community School are shared between the GVRD and School District 45 (West Vancouver). This budget provides for the GVRD share which is to be charged to Electoral Area "C".

	1988 Final Budget	1988 Revised Estimate	1989 Provisional Budget	1989 Final Budget
Revenue				
Tax requisitions	$27,663	$27,663	$27,071	
Surplus/(Deficit) from previous year	1,916	1,916	1,379	
Total Revenue	$29,579	$29,579	$28,450	
Expenditure				
Debt charges				
Principal & interest	$22,753	$22,753	$22,753	
Foreign exchange premiums	6,826	5,447	5,697	
Total Expenditure	$29,579	$28,200	$28,450	
Surplus carried to following year		$ 1,379		